#### **APPENDIX A**

**Waste Volume and Type Data** 

### **Attachment A-1**

Special Waste/ADC Volumes - Generators List

# Special Waste Tonnage by Category January 1 through December 31, 2016

| SAND  | T                    | FLUFF   | Ton-             | C-SOIL  | Ton-                 | ALL OTHER SPECIAL WAST  |                      |
|---|----------------------|---|------------------|---|----------------------|---|----------------------|
| S2 Sand/1A, Foundry   | Tons<br>5,895.75     | F7 Fluff/26A, Shredded Auto Residue                     | Tons<br>7,780.47 | Category  7 A4 Ag Grain/Soil;35A Known Chemical                     | Tons<br>0.00         |   | Tons<br>578.3        |
| S3 Sand/6A, Sandblast w/paint<br>S4 Sand/6B, Sandblasting Other | 363.00<br>532.23     |   |                  | A5 Ag Grain/Soil/35B Unknown Chemical<br>C7 C-Soil/33A, Pet-Ldd Gas |                      | A3 Adhesives/8C, Inorg  | 0.0                  |
| SR Sand/1A-ADC Foundry  | 1,390.98             |   |                  | C9 C-Soil/33A@, Pet-Ldd Gas-ADC CK C-Soil/33B, Pet-Unldd Gas        | 1,043.29<br>0.00     | A6 Animals/25/Animal Waste<br>A7 Animals/25/Tax In                            | 77.4<br>0.0          |
|   |                      |   |                  | CI C-Soil/33B@, Pet-Unidd Gas-ADC CB C-Soil/33C, Pet-Low Flash      | 2.23<br>0.00         | A1 Asbestos F/38A Demo  | 316.9<br>0.0         |
|   |                      |   |                  | CD C-Soil/33C@, Pet-Low Flash-ADC                                   | 0.00                 | AH Asbestos N/F/38C, Demo AS Asbestos NF/Taxed                                | 703.3                |
|   |                      |   |                  | C3 C-Soil/33D, Oil<br>C5 C-Soil/33D@, Pet-Fuel Oil                  | 0.00                 | AT Asbestos F/Taxed   | 0.0                  |
|   |                      |   |                  | CF C-Soil/33E, Pet-Lube Oil C2 C-Soil/33E@, Oil                     |                      | AB Ash, Coal/2A<br>A9 Ash, Coal/2A-Tax In                                     | 0.0                  |
|   |                      |   |                  | CM C-Soil/33F, Pet-Used Oils CO C-Soil/33F@, Pet-Used Oils-ADC      | 0.00                 | AC Ash, Incinerator/2C<br>AE Ash, Wood/2B                                     | 0.0<br>113.4         |
|   |                      |   |                  | C8 C-Soil/34A, Pet-Ldd Gas  |                      | AD Ash/41A Spec Waste Treatment   | 0.0                  |
|   |                      |   |                  | D2 C-Soil/34B, Pet-Unldd Gas  | 0.00                 | DQ Carbon/22-Tax In   | 0.0                  |
|   |                      |   |                  | CJ C-Soil;34B@, Pet-Unidd Gas-ADC<br>D1 C-Soil/34C, Pet-Low Flash   | 0.00                 | CS Catalysts/21, Spent<br>CW Catch Basin/12A, Sanitary Sewer                  | 0.0<br>206.8         |
|   |                      |   |                  | CE C-Soil/34C@, Pet-Low Flash-ADC<br>C4 C-Soil/34D, Fuel Oil        | 0.00                 | DC Catch Basin/12A-Tax In<br>CT Catch Basin/12B, Car Wash                     | 0.0<br>953.4         |
|   |                      |   |                  | C6 C-Soil/34D@, Pet-Fuel Oil  | 720.58               | DG Catch Basin/12B-Tax In   | 39.4                 |
|   |                      |   |                  | CG C-Soil/34E, Pet-Lube Oil CH C-Soil/34E@, Pet-Lube Oil-ADC        | 0.00                 | CX Catch Basin/12C, Vehicle Maint<br>DE Catch Basin/12C-Tax In                | 7.1<br>0.0           |
|   |                      |   |                  | CN C-Soil/34F, Pet-Used Oils CP C-Soil/34F@, Pet-Used Oils-ADC      |                      | CU Catch Basin/12D, Food/Grease<br>CV Catch Basin/12E, Industrial             | 0.0                  |
|   |                      |   |                  | C1 C-Soil/37A<br>CQ C-Soil/37A@                                     | 1,002.86             | CY Ceramic/16 Production CZ Chemicals/23, Single Substance                    | 0.0<br>571.0         |
|   |                      |   |                  | D9 Dredge/42A, No PCBs  | 0.00                 | DD Chemicals/23-Tax In  | 0.0                  |
|   |                      |   |                  | DA Dredge/42B, PCB-10ug<br>DB Dredge/42C, PCB+=10ug                 | 0.00                 | D6 Dust/1D, Shotblast & Med   | 934.7<br>2,558.3     |
|   |                      |   |                  | D4 C-Soil/37A-Tax In-ADC<br>D4 C-Soil/37A-Tax In                    | 0.00<br>471.76       | DF Dust/1D-EXEMPT Shotblast & Med<br>E1 Empty Container/31                    | 1,182.6              |
|   |                      |   |                  | DH C-Soil/33A-Tax In<br>DJ C-Soil/34D-Tax In                        | 0.00                 | E2 Equipment/20, Commercial/Industrial  | 0.0                  |
|   |                      |   |                  | DL C-Soil/34D@-Tax In   | 44.20                | F3 Filters/10B, Ink   | 0.0                  |
|   |                      |   |                  | DP C-Soil/37A-Leachate Leak-No Fees DM C-Soil/33B@-Tax In           | 0.00                 | F2 Filters/29, Air Intake   | 0.0                  |
|   |                      |   |                  | DN C-Soil/33B-Tax In<br>DU C-Soil/34B#                              | 0.00                 | F6 Filters/4A, Paint-Water/Latex  | 0.0<br>82.0          |
|   |                      |   |                  | OB Off Spec/17A@  | 0.00                 | F0 Filters/4B-Tax In<br>F8 Food Waste/30                                      | 0.0                  |
|   |                      |   |                  | DW C-Soil/34F#<br>DX C-Soil/37A#                                    | 0.00                 | FC Food Waste/30-Tax In   | 6,488.6<br>119.2     |
|   |                      |   |                  | DY C-Soil/33B#<br>DT C-Soil/33A#                                    | 0.00                 | FE Filters/29-Tax In<br>G3 Glass/11A, Optical                                 | 0.0                  |
|   |                      |   |                  |   |                      | G1 Glass/11B, Automotive<br>G5 Glass/11C, Residential                         | 0.0<br>167.0         |
|   |                      |   |                  |   |                      | G2 Glass/11D, Mirrored<br>G4 Glass/11E, Other Speciality                      | 0.0                  |
|   |                      |   |                  |   |                      | G6 Glues/8A, Animal/Vegetable-Based   | 0.0                  |
|   |                      |   |                  |   |                      | G7 Glues/8B, Solvent-Based<br>L2 Lamps/24A, Crushed                           | 0.0                  |
|   |                      |   |                  |   |                      | L3 Lamps/24B, Treated<br>L4 Leather/19 Wastes                                 | 0.0                  |
|   |                      |   |                  |   |                      | L5 Light Ballasts/24C, Non PCB  | 0.0                  |
|   |                      |   |                  |   |                      | O6 Misc Paint/5, and Paint Chip Dried<br>O7 Other Liquid Wastes/44B           | 0.0<br>5,916.9       |
|   |                      |   |                  |   |                      | O3 Off Spec/17A, Uncontaminated O1 Off Spec/17B, Contaminated                 | 294.9                |
|   |                      |   |                  |   |                      | O2 Off Spec/17C, Ends & Trimming  | 3.0                  |
|   |                      |   |                  | NOTE: @ = C-Soil to Bio/ADC   |                      | O4 Other Misc/39 Industrial Waste O7 Other Liquid Wastes/44B                  | 8,226.4<br>0.0       |
|   |                      |   |                  | NOTE: # = C-Soil for Beneficial Reuse                               |                      | O9 Other Liquid Wastes/44B-Tax In<br>05 Other Misc/39-Tax In                  | 5.3<br>94.9          |
|   |                      |   |                  |   |                      | P4 PCB/26B, Paints  | 0.0                  |
|   |                      |   |                  |   |                      | P6 PCB/26D, Non-Liquid Demo   | 0.0                  |
|   |                      |   |                  |   |                      | P7 PCB/26E, Other<br>P2 Paint/3B, Solvent-Based                               | 0.0                  |
|   |                      |   |                  |   |                      | P3 Paint/3A, Water-Based Latex  | 2.0                  |
|   |                      |   |                  |   |                      | P1 Paint/3C, Powdered   | 0.0<br>307.3         |
|   |                      |   |                  |   |                      | R1 RR Ties/27B, and Telephone Poles<br>R2 Refactory/9                         | 5.2<br>180.5         |
|   |                      |   |                  |   |                      | R4 Residue/40, Hazardous Treatment<br>R3 Residue/41B, Infectious Waste Trtmnt | 4,463.4              |
|   |                      |   |                  |   |                      | R5 Resin/8D, Mineral/Asphaltic  | 0.0                  |
|   |                      |   |                  |   |                      | R6 Resin/8E, Silicone Waste<br>R7 Resin/8F, Thermoplastic                     | 0.0                  |
|   |                      |   |                  |   |                      | R8 Resin/8G, Thermosetting<br>S5 Slag/1C                                      | 0.0<br>42.6          |
|   |                      |   |                  |   |                      | S8 Sludge/10A, Ink<br>S1 Sludge/13A, Paper Mill                               | 271.1<br>62,230.9    |
|   |                      |   |                  |   |                      | S9 Sludge/13B, Metal Prep WWT   | 1,839.3              |
|   |                      |   |                  |   |                      | S0 Sludge/13B-Tax In<br>S7 Sludge/13C, Grinding/Machining                     | 0.0<br>526.9         |
|   |                      |   |                  |   |                      | S6 Sludge/13C-Tax In<br>SC Sludge/13D, Organic Chemical WWT                   | 0.0<br>148.5         |
|   |                      |   |                  |   |                      | SI Sludge/13E, Water Curt. Paint<br>SB Sludge/13F, Oil Water Septr            | 1.5                  |
|   |                      |   |                  |   |                      | SJ Sludge/14, Water Sup Treatment   | 370.9                |
|   |                      |   |                  |   |                      | SA Sludge/15, Municipal WWTP<br>SF Sludge/32A, Tank Bottom-Gas                | 4,706.0              |
|   |                      |   |                  |   |                      | SE Sludge/32B, Tank Bottom-Fuel Oil<br>SH Sludge/32C, Tank Bottom-Used Oil    | 0.0                  |
|   |                      |   |                  |   |                      | SD Sludge/32C-Tax In<br>SG Sludge/32D, Tank Bottom-Non-Pet                    | 0.<br>0.             |
|   |                      |   |                  |   |                      | SL Spill Residue/36A, Non Industrial  | 0.                   |
|   |                      |   |                  |   |                      | SK Spill Residue/36B, Industrial<br>SN Sweepings/18A, Plant Cleanup           | 0.<br>6.             |
|   |                      |   |                  |   |                      | SO Street Sweepings/43<br>SU Street Sweepings/43#                             | 697                  |
|   |                      |   |                  |   |                      | ST Sludge/15-Tax In   | 0.                   |
|   |                      |   |                  |   |                      | W1 Wood/27A, and Sawdust, Untreated<br>W2 Wood/27E, CCA Treated               | 14.                  |
|   |                      |   |                  |   |                      | W3 Wood/27C, Creosote Treated<br>W4 Wood/27D, PCP Treated                     | 0.                   |
|   |                      |   |                  |   |                      | W9 Wood/27B, Weathered Tele Poles & RR Ties                                   | 113.                 |
|   |                      |   |                  |   |                      | D3 Debris/37B, Non Pet-Remediated<br>DR Debris/37B-Tax In                     | 18                   |
|   |                      |   |                  |   |                      | ZB 39 GP Misc Industrial Waste<br>SV Sludge/13A#                              | 31.<br>47,450.       |
| Congreted By:   |                      | Generated By:   |                  | Generated By:   |                      |   | -7,400.              |
| Generated By:<br>(See Special Waste Generators Lis              | sting)               | Generated By:<br>(See Special Waste Generators Listing) |                  | Generated By:<br>(See Special Waste Generators Listing)             |                      | Generated By:<br>(See Special Waste Generators Listing)                       |                      |
| ADC-Foundry   | 1,390.98             | ADC   | 7,780.47         | ® Bio/ADC   | 1,810.30             | ADC-Foundry   | 1,182.               |
| HVIW<br>All Other   | 5,880.38<br>910.60   |   | .,.00.47         | # Beneficial Reuse All Other  | 0.00<br>1,905.77     | Beneficial Reuse<br>All Other   | 47,450.1<br>104,463. |
| Ail Ottle   |                      |   |                  |   |                      |   |                      |
|   | 8,181.96<br>8,181.96 | tons  | 7,780.47         | 7 tons  | 3,716.07<br>3,716.07 | tons  | 153,095.<br>153,095. |
|   | 1200 1,517.67        |   |                  | 1200  |                      | 120   |                      |
|   |                      |   | 7 700 :-         |   | 5,110.20             | 168   | 4 8,195.             |
|   | 2000 1,390.98        | 2000  | 7,780,47         | <u> </u>  |                      | 200<br>220  |                      |

7,780.47 yd3

3000 <u>1,206.87</u> 4,383.15 yd3

57,987.67 8,195.65 57,804.06 56,602.36 <u>7,342.86</u> 187,932.60

3,920.25 6,828.90 yd3

# Advanced Disposal Services Glacier Ridge Landfill, LLC Special Waste Generators January 1, 2016 through December 31, 2016

| Generator   | CONTRACT and Material   | <u>Weight</u>       |
|---|---|---------------------|
| Chegwin Elementary Lorenz Bielmeir U S Army Old Highway Garage - Wayne Spritka Lawrence University - Memorial Hall UW - Green Bay C D Smith Construction UW - Oshkosh - Fletcher Hall Walter Schuk Fond du Lac Humane Society | BADGER ENVIRONMENTAL SERVICES Asbestos F/38A Demo                 | 17.93 TN            |
| Jay Vockroth  | BEAVER SERVICES-700 BEAVER STREET<br>Asbestos NF/38C, Demo        | 47.67 TN            |
| DD Williamson   | <b>DD WILLIAMSON</b> Food Waste/30-Tax In                         | 84.89 TN            |
| Veolia ES Technical Solutions- Menomonee Falls  | <b>DRUMMED MENO FALLS NON-REG 1</b> Other Misc/39, Ind Waste      | 6.00 TN             |
| Various Cash Customers  | GLACIER GATE RATE<br>Asbestos F/38A Demo<br>Asbestos NF/38C, Demo | 0.64 TN<br>14.72 TN |
| Maysteel Corporation  | GRL 00010<br>Paint/3C, Powdered                                   | 42.84 TN            |
| Mercury Marine  | <b>GRL 00048</b><br>C-Soil/37A                                    | 169.96 TN           |
| Caine Warehousing   | <b>GRL 00075</b> Food Waste/30                                    | 29.17 TN            |
| Village of Hartland   | GRL 00096<br>Street Sweepings/43                                  | 167.53 TN           |
| Gardner Equipment   | GRL 01013 Paint/3C, Powdered                                      | 3.29 TN             |
| Sadoff & Rudoy Industries   | <b>GRL 01042</b> Fluff/26A, Shredded Auto Residue                 | 6,774.98 TN         |
| Central Wire  | <b>GRL 01095</b><br>Sludge/13B, Metal Prep WWT                    | 160.51 TN           |
| LeRoy Meats   | GRL 02085D<br>Animals/25, Animal Waste                            | 5.98 TN             |
| Saukville Meats   | GRL 02092D<br>Animals/25, Animal Waste                            | 2.09 TN             |
| Construction Forms Inc.   | GRL 03001<br>Other Misc/39, Ind Waste                             | 27.60 TN            |
| Country Meat Cutters  | GRL 03015D  |                     |

|   | Animals/25, Animal Waste   | 5.54             | TN |
|---|--|------------------|----|
| J. F. Ahern                               | GRL 03050<br>Sand/6A, Sandblast w/paint<br>Sand/6B, Sandblasting other | 283.93<br>176.41 |    |
| Fisher Barton                             | GRL 03051<br>Other Misc/39, Ind Waste                                  | 2.40             | TN |
| John Deere Horicon Works                  | GRL 03091<br>Other Misc/39, Ind Waste                                  | 38.40            | TN |
| Alliance Laundry Systems                  | GRL 04012<br>Sludge/13D, Organic Chem. WWT                             | 148.54           | TN |
| Saukville Public Works                    | GRL 04018<br>Street Sweepings/43                                       | 57.70            | TN |
| Veolia ES Industrial Services - Sheboygan | GRL 04029DL<br>Catch Basin/12B-Tax In                                  | 39.41            | TN |
| Kleen Test                                | GRL 04034<br>Off Spec/17A-Uncontaminated                               | 218.62           | TN |
| John Deere Horicon Works                  | GRL 04036<br>Other Misc/39, Ind Waste                                  | 3.50             | TN |
| Mercury Marine                            | GRL 04045DL<br>Sludge/13C, Grinding/Maching                            | 2.36             | TN |
| Kirsh Foundry                             | GRL 04060 Dust/1D-EXEMPT Shotblast & Media                             | 425.63           | TN |
| Kirsh Foundry                             | GRL 04061<br>Sand/1A-ADC Foundry                                       | 255.34           | TN |
| Village of Pewaukee                       | GRL 04073<br>Street Sweepings/43                                       | 42.72            | TN |
| Eaton's Cooper Power Systems              | GRL 05030<br>Sludge/13E, Water Curt. Paint                             | 1.51             | TN |
| Eaton's Cooper Power Systems              | GRL 05030DL<br>Other Misc/39, Ind Waste                                | 298.71           | TN |
| Ozburn Hessey                             | <b>GRL 05035</b> Food Waste/30   | 179.58           | TN |
| Lakeside Foods                            | GRL 06023<br>Food Waste/30   | 47.55            | TN |
| BCI Burke                                 | GRL 06047 Filters/4B, Paint-Solvent Off Spec/17C-Ends & Trimming       | 1.58<br>3.05     |    |
| Fall River Foundry                        | GRL 07002<br>Sand/1A, Foundry  | 2,799.21         | TN |
| Northstar Environmental                   | GRL 07015DL<br>Catch Basin/12B, Car Wash                               | 21.09            | TN |
| Clayton County Recycling                  | GRL 07027<br>Fluff/26A, Shredded Auto Residue                          | 1,005.49         | TN |

| Rhodes Bake-N-Serve      | GRL 07028<br>Food Waste/30                         | 483.41           | TN |
|--------------------------|--|------------------|----|
| Richland Center Foundry  | GRL 07042<br>Sand/1A, Foundry                      | 1,662.60         | TN |
| Richland Center Foundry  | GRL 07043<br>Dust, Baghouse/1B                     | 204.74           | TN |
| Federal Mogul            | GRL 07050<br>Abrasives/7 Buffing Waste             | 488.12           | TN |
| Metal Tek                | GRL 08002<br>Sand/1A, Foundry                      | 335.13           | TN |
| United Liquid Waste      | GRL 08024<br>Food Waste/30<br>Food Waste/30-Tax In | 4,571.75<br>0.50 |    |
| Hartford Finishing       | GRL 08061<br>Paint/3C, Powdered                    | 103.47           | TN |
| Hartford Finishing       | GRL 08062<br>Sludge/13B, Metal Prep WWT            | 78.89            | TN |
| Federal Mogul            | GRL 08074<br>Sludge/13C, Grinding/Maching          | 7.35             | TN |
| Village of Jackson       | GRL 08091<br>Street Sweepings/43                   | 103.44           | TN |
| CP Rail                  | GRL 08095<br>RR Ties /27B& Tele Poles              | 5.26             | TN |
| Kleen Test               | GRL 09004<br>Chemicals/23, Single Substan          | 1.20             | TN |
| Seats Incorporated       | GRL 09012<br>Other Misc/39, Ind Waste              | 68.94            | TN |
| Village of Slinger       | GRL 09014<br>Street Sweepings/43                   | 27.55            | TN |
| City of Fond du Lac      | <b>GRL 09021</b><br>Sludge/15, Municipal WWTP      | 1,637.43         | TN |
| Kewaskum WWTP            | GRL 09027<br>Refractory /9                         | 15.78            | TN |
| John Deere Horicon Works | GRL 09028<br>Other Misc/39, Ind Waste              | 5.26             | TN |
| Kleen Test               | GRL 09035<br>Other Misc/39, Ind Waste              | 12.14            | TN |
| Norstar Aluminum Metals  | GRL 09089<br>Sand/1A, Foundry                      | 110.43           | TN |
| Norstar Aluminum Metals  | GRL 09090<br>Other Misc/39, Ind Waste              | 110.48           | TN |
| Hartford Finishing       | GRL 09127<br>Sludge/13B, Metal Prep WWT            | 0.79             | TN |

| Hartford Finishing                     | GRL 09128<br>Sludge/13C, Grinding/Maching             | 139.22 TN            |
|--|---|----------------------|
| Village of Grafton                     | GRL 09135<br>Street Sweepings/43                      | 252.79 TN            |
| Menasha Packaging                      | <b>GRL 09140</b><br>Sludge/10A,Ink                    | 271.15 TN            |
| Apache Stainless Equipment Corporation | GRL 10019<br>Sludge/13C, Grinding/Maching             | 12.00 TN             |
| Apache Stainless Equipment Corporation | GRL 10020<br>Other Misc/39, Ind Waste                 | 0.60 TN              |
| Covance Laboratory Inc.                | <b>GRL 10076</b><br>Ash, Wood/2B                      | 2.87 TN              |
| Cambrex                                | GRL 10078<br>Other Misc/39, Ind Waste                 | 85.17 TN             |
| Johnson's Sausage Shoppe               | GRL 10082D<br>Animals/25, Animal Waste                | 10.18 TN             |
| Cambrex                                | <b>GRL 10087</b><br>Sludge/15, Municipal WWTP         | 1,367.82 TN          |
| Mantz Automation                       | <b>GRL 11001</b><br>Sweepings/18A, Plant Cleanup      | 6.47 TN              |
| Central Wire                           | GRL 11004DL<br>Other Misc/39-Tax In                   | 57.07 TN             |
| Cardinal FG                            | GRL 11007<br>Chemicals/23, Single Substan             | 569.65 TN            |
| Cardinal FG                            | GRL 11008<br>Other Misc/39, Ind Waste                 | 202.98 TN            |
| W P & L/Alliant Energy                 | GRL 11015<br>Wood/27B, Weathered Tele Poles & RR Ties | 3.72 TN              |
| City of West Bend Sewer                | GRL 11020<br>Catch Basin/12A, San Sewr                | 162.64 TN            |
| Grande Cheese                          | GRL 11023<br>Food Waste/30<br>Food Waste/30-Tax In    | 286.39 TN<br>9.88 TN |
| Brenner Tank                           | GRL 11046<br>Other Misc/39, Ind Waste                 | 12.19 TN             |
| Saukville WWTP                         | GRL 11070<br>Catch Basin/12A, San Sewr                | 15.94 TN             |
| Paul's Deer Processing                 | GRL 11076D<br>Animals/25, Animal Waste                | 10.48 TN             |
| Spectrum Brands                        | GRL 11079<br>Other Misc/39, Ind Waste                 | 4.52 TN              |
| Spectrum Brands                        | GRL 11079DL<br>Other Misc/39, Ind Waste               | 17.92 TN             |

| Refractory Service                   | GRL 11087<br>Off Spec/17A-Uncontaminated                      | 76.36 TN                    |
|--------------------------------------|---|-----------------------------|
| Refractory Service                   | GRL 11088<br>Refractory /9                                    | 58.68 TN                    |
| Momentive Specialty Chemical         | GRL 12014<br>Other Misc/39-Tax In<br>Other Misc/39, Ind Waste | 26.41 TN<br>47.42 TN        |
| Covanta Environmental Solutions      | GRL 12016DL<br>Other Liquid Wastes/44B                        | 300.99 TN                   |
| Brenner Tank                         | GRL 12020<br>Sand/6B, Sandblasting other                      | 23.43 TN                    |
| Covanta Environmental Solutions      | GRL 12038DL<br>Other Liquid Wastes/44B                        | 5,606.11 TN                 |
| Advanced Disposal Services - Horicon | GRL 12062<br>Catch Basin/12B, Car Wash                        | 24.92 TN                    |
| Advanced Disposal Services - Horicon | GRL 12062DL<br>Catch Basin/12B, Car Wash                      | 454.09 TN                   |
| John Deere Horicon Works             | GRL 12084<br>Paint/3C, Powdered                               | 4.72 TN                     |
| Mercury Marine                       | <b>GRL 12090</b> Filters/29, Air Intake                       | 2.61 TN                     |
| Grande Cheese                        | GRL 12102DL<br>Catch Basin/12A, San Sewr                      | 4.62 TN                     |
| SCA Tissue North America LLC         | <b>GRL 13001 TP-1</b><br>Sludge/13A, Paper Mill               | 54,264.50 TN                |
| SCA Tissue North America LLC         | GRL 13001 TP-2<br>Sludge/13A, Paper Mill<br>Sludge/13A#       | 7,966.44 TN<br>47,450.00 TN |
| Arrow Manufacturing, Inc.            | GRL 13004<br>Other Misc/39, Ind Waste                         | 5.40 TN                     |
| Kleen Test                           | GRL 13011<br>Other Misc/39, Ind Waste                         | 2.21 TN                     |
| Saputo Cheese                        | <b>GRL 13015</b> Food Waste/30                                | 21.30 TN                    |
| Covanta Environmental Solutions      | <b>GRL 13028DL</b><br>Other Liquid Wastes/44B                 | 9.81 TN                     |
| Modern Equipment                     | <b>GRL 13034</b> Sand/6B, Sandblasting other                  | 43.51 TN                    |
| Suburban Foundry                     | GRL 13047<br>Sand/1A, Foundry                                 | 95.55 TN                    |
| Alliance Laundry Systems             | GRL 13076<br>Sludge/13C, Grinding/Maching                     | 47.73 TN                    |
| Baraboo WTF                          | GRL 13078<br>Catch Basin/12A, San Sewr                        | 23.64 TN                    |

| Fall River Foundry                              | GRL 13080<br>Dust/1D, Shotblast & Med           | 2,385.42 TN |
|---|---|-------------|
| Madison-Kipp Corporation                        | GRL 13088<br>Refractory /9                      | 52.34 TN    |
| Veolia ES Technical Solutions - Port Washington | <b>GRL 14067</b> Residue/40, Haz Treatment      | 263.74 TN   |
| Madison-Kipp Corporation                        | GRL 14087<br>Food Waste/30                      | 81.53 TN    |
| John Deere Horicon Works                        | GRL 14103<br>Other Misc/39, Ind Waste           | 5.69 TN     |
| Regal Ware                                      | GRL 14114<br>Other Misc/39, Ind Waste           | 85.63 TN    |
| Regal Ware                                      | GRL 14115<br>Other Misc/39, Ind Waste           | 84.23 TN    |
| Regal Ware                                      | GRL 14116<br>Abrasives/7 Buffing Waste          | 90.22 TN    |
| Hartford Finishing                              | GRL 14118 Paint/3C, Powdered                    | 61.21 TN    |
| Veolia ES Technical Solutions - Port Washington | GRL 14124<br>Other Misc/39, Ind Waste           | 102.23 TN   |
| Hartford Finishing                              | <b>GRL 14125</b><br>Sludge/13B, Metal Prep WWT  | 20.23 TN    |
| Village of Lomira WWTP                          | <b>GRL 14126</b><br>Sludge/15, Municipal WWTP   | 473.27 TN   |
| Northern Trail Meats                            | GRL 14145D<br>Animals/25, Animal Waste          | 14.54 TN    |
| Village of Newburg                              | GRL 14146<br>Street Sweepings/43                | 45.52 TN    |
| Hartford Finishing                              | GRL 14149<br>Sand/6B, Sandblasting other        | 41.80 TN    |
| Georgia Pacific                                 | <b>GRL 14250</b><br>39 GP MISC INDUSTRIAL WASTE | 31.66 TN    |
| Harley Davidson                                 | GRL 15016<br>Other Misc/39, Ind Waste           | 13.37 TN    |
| Harley Davidson                                 | GRL 15016DL<br>Other Misc/39-Tax In             | 6.80 TN     |
| Eaton's Cooper Power Systems                    | GRL 15026DL<br>Sludge/13B, Metal Prep WWT       | 94.87 TN    |
| Veolia ES Technical Solutions - Port Washington | GRL 15031<br>Other Misc/39, Ind Waste           | 85.56 TN    |
| Mercury Marine                                  | GRL 15038<br>Debris/37B, Non Pet-Remediated     | 3.79 TN     |

| Metal Tek                             | GRL 15044<br>Sand/6A, Sandblast w/paint          | 43.39 TN  |
|---------------------------------------|--|-----------|
| Metal Tek                             | GRL 15045<br>Dust/1D, Shotblast & Med            | 43.39 TN  |
| The Laser Shop                        | GRL 15048<br>Other Misc/39, Ind Waste            | 64.17 TN  |
| Saputo Cheese                         | GRL 15049<br>Other Misc/39, Ind Waste            | 15.97 TN  |
| ATC - South Fond du Lac Substation    | <b>GRL 15053</b><br>C-Soil/37A-Tax In            | 75.36 TN  |
| ATC - South Fond du Lac Substation    | <b>GRL 15054</b><br>C-Soil/37A-Tax In            | 6.33 TN   |
| Zinc Inc.                             | <b>GRL 15057</b><br>Sludge/13B, Metal Prep WWT   | 28.57 TN  |
| Mayville Engineering Company Inc.     | <b>GRL 15062DL</b><br>Sludge/13B, Metal Prep WWT | 71.03 TN  |
| Steele Solutions                      | GRL 15065DL<br>Other Misc/39, Ind Waste          | 8.49 TN   |
| Marquette County Fair                 | GRL 15069<br>Animals/25, Animal Waste            | 15.09 TN  |
| John Deere Horicon Works              | GRL 15070B<br>C-Soil/34D@, Pet-Fuel Oil          | 660.06 TN |
| Big Gain Wisconsin                    | GRL 15076<br>Food Waste/30                       | 290.06 TN |
| Helgesen Industries                   | <b>GRL 15079</b> Filters/4B, Paint-Solvent       | 5.15 TN   |
| Helgesen Industries                   | <b>GRL 15080</b> Paint/3A, Water-based/Latex     | 2.05 TN   |
| Helgesen Industries                   | GRL 15081<br>Other Misc/39, Ind Waste            | 1.84 TN   |
| Helgesen Industries                   | GRL 15082<br>Other Misc/39, Ind Waste            | 3.07 TN   |
| Sysco Foods                           | GRL 15096<br>Food Waste/30                       | 10.09 TN  |
| Advanced Disposal Services - Hartland | <b>GRL 15103</b><br>C-Soil/37A                   | 31.92 TN  |
| Federal Mogul                         | <b>GRL 15109</b> Sludge/13C, Grinding/Maching    | 7.35 TN   |
| Construction Forms Inc.               | GRL 15113<br>Other Misc/39, Ind Waste            | 1.02 TN   |
| Hartford Finishing                    | GRL 16001<br>Sand/6B, Sandblasting other         | 13.10 TN  |
| Mercury Marine                        | GRL 16002  |           |

|  | C-Soil/37A   | 197.65 TN          |
|--|--|--------------------|
| Eaton's Cooper Power Systems                   | GRL 16003<br>Other Misc/39, Ind Waste                      | 1.49 TN            |
| WisDOT ID #3364-03-73 (Cole's Amoco, Lomira)   | GRL 16004B<br>C-Soil/33A@ , Pet-Ldd Gs-ADC                 | 1,043.29 TN        |
| Dollar General Store #6587 (North Fond du Lac) | <b>GRL 16005</b><br>Food Waste/30                          | 15.34 TN           |
| Milk Specialties                               | <b>GRL 16006</b><br>Food Waste/30                          | 21.27 TN           |
| Veolia ES Technical Solutions - Fort Atkinson  | <b>GRL 16007</b><br>Sludge/15, Municipal WWTP              | 1,227.51 TN        |
| Riesterer & Schnell                            | GRL 16008DL<br>Catch Basin/12C, Veh Maint                  | 6.12 TN            |
| Sanimax USA LLC                                | <b>GRL 16009B</b><br>C-Soil/34D@, Pet-Fuel Oil             | 55.40 TN           |
| Sanimax USA LLC                                | <b>GRL 16010</b><br>C-Soil/34D, Fuel Oil                   | 378.38 TN          |
| City of Waupun (WisDOT ID #6090-06-76)         | <b>GRL 16012</b><br>C-Soil/37A                             | 100.66 TN          |
| Cardinal FG                                    | GRL 16014<br>Other Misc/39, Ind Waste                      | 174.17 TN          |
| Harley Davidson                                | GRL 16017DL<br>Other Liquid Wastes/44B-Tax In              | 1.65 TN            |
| Lunda Construction                             | GRL 16018 Wood/27B, Weathered Tele Poles & RR Ties         | 79.76 TN           |
| Graymont Western Lime Inc.                     | <b>GRL 16019</b> Debris/37B, Non Pet-Remediated            | 1.00 TN            |
| Schneider Transportation                       | <b>GRL 16020</b><br>Food Waste/30                          | 18.97 TN           |
| Eaton's Cooper Power Systems                   | GRL 16021 Debris/37B, Non Pet-Remediated Debris/37B-Tax In | 0.02 TN<br>0.20 TN |
| Landmark Services Cooperative                  | <b>GRL 16024</b><br>Food Waste/30                          | 2.75 TN            |
| Hartford Finishing                             | GRL 16025<br>Dust/1D, Shotblast & Med                      | 1.86 TN            |
| Perry Way Foods                                | <b>GRL 16027</b><br>Food Waste/30                          | 5.36 TN            |
| Milk Specialties Global                        | <b>GRL 16028</b> Food Waste/30                             | 11.22 TN           |
| Associated Milk Producers, Inc.                | GRL 16029<br>Other Misc/39, Ind Waste                      | 173.89 TN          |
| Embassy Condo Homeowners Association           | GRL 16031DL  |                    |

|   | Catch Basin/12B, Car Wash                     | 3.26 TN              |
|---|---|----------------------|
|   |   | 3.20 TN              |
| Advanced Disposal Services - Horicon                | GRL 16032<br>Debris/37B, Non Pet-Remediated   | 13.50 TN             |
| Advanced Disposal Services - Glacier Ridge Landfill | <b>GRL 16033</b><br>C-Soil/37A                | 3.68 TN              |
| Clasen Quality Coatings Inc.                        | GRL 16034 Food Waste/30 Food Waste/30-Tax In  | 30.50 TN<br>15.81 TN |
| Wisconsin & Southern Railroad                       | GRL 16035<br>Other Misc/39, Ind Waste         | 3.44 TN              |
| Herman Management Co., LLC                          | GRL 16036B<br>C-Soil/34D@, Pet-Fuel Oil       | 5.12 TN              |
| Van Asten Painting                                  | GRL 16037<br>Sand/6A, Sandblast w/paint       | 35.68 TN             |
| Advanced Disposal Services - Sheboygan              | GRL 16038DL<br>Other Liquid Wastes/44B-Tax In | 3.74 TN              |
| Mercury Marine                                      | <b>GRL 16039</b><br>C-Soil/37A                | 16.84 TN             |
| Federal Mogul                                       | GRL 16040<br>Other Misc/39-Tax In             | 4.71 TN              |
| Veolia ES Technical Solutions - Port Washington     | <b>GRL 16041</b><br>C-Soil/37A                | 56.30 TN             |
| Razor Composites                                    | GRL 16043<br>Other Misc/39, Ind Waste         | 37.65 TN             |
| Former Ataco Steel/Construction Forms, Inc.         | <b>GRL 16044</b><br>C-Soil/37A                | 37.36 TN             |
| Federal Mogul                                       | <b>GRL 16045</b><br>Empty Cont/31             | 6.41 TN              |
| Columbia County                                     | <b>GRL 16046</b><br>Ash, Wood/2B              | 46.30 TN             |
| John Deere Horicon Works                            | GRL 16047<br>Catch Basin/12C, Veh Maint       | 1.05 TN              |
| Seneca Foods  | GRL 16048<br>Wood /27A, Sawdust-Untreated     | 14.46 TN             |
| John Deere Horicon Works                            | <b>GRL 16049</b><br>C-Soil/37A                | 59.36 TN             |
| Federal Mogul                                       | <b>GRL 16050</b><br>Empty Cont/31             | 3.89 TN              |
| Oconomowoc Landscape Supply                         | GRL 16051<br>C-Soil/34D, Fuel Oil             | 40.37 TN             |
| Walmart DC #7039 (Beaver Dam)                       | <b>GRL 16052</b><br>Food Waste/30             | 2.29 TN              |
| United Liquid Waste Recycling, Inc.                 | GRL 16053                                     |                      |

|   | Glass/11C, Residential                             | 167.00 TN            |
|---|--|----------------------|
| Veolia ES Technical Solutions - Port Washington | GRL 16059B<br>C-Soil/33B@, Pet-Unld Gs-ADC         | 2.23 TN              |
| Sadoff Iron & Metal                             | GRL 16060<br>Other Misc/39, Ind Waste              | 81.94 TN             |
| Kondex Corporation                              | GRL 16062<br>Other Misc/39, Ind Waste              | 23.78 TN             |
| Kondex Corporation                              | GRL 16065<br>Other Misc/39, Ind Waste              | 72.56 TN             |
| MBW, Inc.                                       | <b>GRL 16069</b> Filters/4B, Paint-Solvent         | 0.14 TN              |
| Sysco Foods of Baraboo                          | <b>GRL 16070</b> Food Waste/30                     | 32.37 TN             |
| Perry Way Foods                                 | GRL 16071<br>Food Waste/30                         | 18.84 TN             |
| City of Mayville                                | GRL 16072<br>Other Misc/39, Ind Waste              | 92.49 TN             |
| ATC - Barton Substation                         | GRL 16073DL<br>C-Soil/37A-Tax In                   | 338.92 TN            |
| ATC - St. Lawrence Substation                   | GRL 16074DL<br>C-Soil/37A-Tax In                   | 22.64 TN             |
| Grande Cheese                                   | GRL 16076<br>Food Waste/30<br>Food Waste/30-Tax In | 142.24 TN<br>8.20 TN |
| Ryder   | GRL 16077<br>Food Waste/30                         | 86.05 TN             |
| Greg Johnson                                    | <b>GRL 16078</b><br>Ash, Wood/2B                   | 39.31 TN             |
| Ryder   | GRL 16079<br>Food Waste/30                         | 4.14 TN              |
| Sysco Foods of Baraboo                          | GRL 16080<br>Food Waste/30                         | 23.40 TN             |
| Kirsh Foundry                                   | GRL 16081<br>Dust/1D, Shotblast & Med              | 85.09 TN             |
| Kirsh Foundry                                   | <b>GRL 16082</b><br>Slag /1C                       | 42.61 TN             |
| Kirsh Foundry                                   | GRL 16083<br>Dust/1D, Shotblast & Med              | 42.61 TN             |
| Kraft Foods                                     | <b>GRL 16084</b><br>C-Soil/37A                     | 326.40 TN            |
| Village of Lomira                               | GRL 16085<br>Wood/27D, PCP Treated                 | 7.20 TN              |
| Arami Krebs                                     | GRL 16087  |                      |

|   | Food Waste/30   | 0.46 TN   |
|---|---|-----------|
| Swift Transportation Corporation                | <b>GRL 16088B</b><br>C-Soil/34D@-Tax In               | 44.20 TN  |
| Graymont Western Lime Inc.                      | <b>GRL 16089</b><br>C-Soil/37A                        | 2.73 TN   |
| Steve Pestor<br>Joseph Pillsbury<br>Jan Zirbel  | GRL 16090D<br>Animals/25, Animal Waste                | 0.39 TN   |
| Honey Acres Inc.                                | GRL 16091<br>Food Waste/30                            | 3.64 TN   |
| Bergstrom Corporation                           | GRL 16094DL<br>Other Misc/39, Ind Waste               | 4.94 TN   |
| Alliant Energy                                  | GRL 16095<br>Filters/29, Air Intake                   | 5.48 TN   |
| Village of Lomira                               | <b>GRL 16096</b><br>Ash, Wood/2B                      | 24.93 TN  |
| Border States Electric                          | GRL 16097<br>Wood/27B, Weathered Tele Poles & RR Ties | 30.04 TN  |
| ATC - Concord Substation                        | GRL 16104DL<br>C-Soil/37A-Tax In                      | 28.51 TN  |
| Gehrings Meat Market                            | GRL 16106D<br>Animals/25, Animal Waste                | 11.03 TN  |
| Flint Hills Resources Pine Bend, LLC            | GRL 16108<br>C-Soil/34F, Pet-Used Oils                | 12.40 TN  |
| Sysco Foods of Baraboo                          | GRL 16112<br>Food Waste/30                            | 3.17 TN   |
| Vanderloop Equipment                            | GRL 16113<br>Animals/25, Animal Waste                 | 2.10 TN   |
| Metal Tek                                       | GRL 16116<br>Chemicals/23, Single Substan             | 0.18 TN   |
| John Deere Horicon Works                        | <b>GRL 940332</b><br>Sand/1A, Foundry                 | 136.05 TN |
| John Deere Horicon Works                        | GRL 940332DL<br>Sand/1A, Foundry                      | 12.22 TN  |
| Veolia ES Technical Solutions - Port Washington | GRL 950015<br>Residue/40, Haz Treatment               | 40.29 TN  |
| Mercury Marine                                  | GRL 950032<br>Sludge/13B, Metal Prep WWT              | 221.34 TN |
| Mercury Marine                                  | <b>GRL 950171</b><br>Sand/1A, Foundry                 | 569.29 TN |
| Karavan Trailers                                | GRL 950226<br>Paint/3C, Powdered                      | 17.17 TN  |
| Grande Cheese                                   | GRL 980041  |           |

|  | Food Waste/30   | 33.52 TN                   |
|--|---|----------------------------|
| Robbins Manufacturing                                    | GRL 980111<br>Paint/3C, Powdered  | 69.32 TN                   |
| Mercury Marine   | GRL 990001<br>Other Misc/39, Ind Waste                                  | 164.74 TN                  |
| John Deere Horicon Works                                 | GRL 990002<br>Sludge/13C, Grinding/Maching                              | 8.97 TN                    |
| Mercury Marine   | GRL 990026<br>Sludge/13B, Metal Prep WWT                                | 1,163.10 TN                |
| Mercury Marine   | GRL 990027<br>Dust, Baghouse/1B   | 730.00 TN                  |
| Wisconsin & Southern Railroad                            | GRL 990037<br>Sand/1A, Foundry  | 175.27 TN                  |
| John Deere Horicon Works                                 | GRL 990153<br>Sludge/14, Water Sup Trtment                              | 322.98 TN                  |
| Seneca Foods   | GRL01010<br>Food Waste/30   | 8.67 TN                    |
| Watertown Hopps  | GRL970122<br>Food Waste/30<br>Other Misc/39, Ind Waste                  | 23.58 TN<br>8.30 TN        |
| Ad Tech Technologies, Inc.                               | GRLO1007<br>Filters/4B, Paint-Solvent                                   | 75.14 TN                   |
| Hartford Community Development Authority                 | HARTFORD COMM DEV AUTH<br>Asbestos NF/38C, Demo                         | 0.38 TN                    |
| H.I.S. Corp  | HIS CORP<br>Asbestos NF/38C, Demo                                       | 4.62 TN                    |
| Advanced Disposal Services - Horicon (various customers) | HORICON HAUL<br>Asbestos F/38A Demo<br>Asbestos NF/38C, Demo            | 23.75 TN<br>154.47 TN      |
| Kirsh Foundry  | KIRSH MIXED LOADS Dust/1D-EXEMPT Shotblast & Media Sand/1A-ADC Foundry  | 756.98 TN<br>1,135.64 TN   |
| Tod Alovski  | L & H GYR<br>Asbestos NF/38C, Demo                                      | 57.38 TN                   |
| Jacob Klein  | MADISON PARK BROOK DEMO<br>Asbestos NF/38C, Demo                        | 338.87 TN                  |
| Veolia ES Technical Solutions - Menomonee Falls          | MENO FALLS NON-REG 1 Other Misc/39, Ind Waste Residue/40, Haz Treatment | 5,954.08 TN<br>4,159.39 TN |
| Metal Craft  | METAL CRAFT MIXED Paint/3C, Powdered Sludge/14, Water Sup Trtment       | 5.32 TN<br>47.93 TN        |
| Michels Corporation                                      | MICHELS MIXED Catch Basin/12B, Car Wash Sand/6B, Sandblasting other     | 450.12 TN<br>117.47 TN     |

| St. Agnes Hospital  | ROBINSON BROTHERS Asbestos F/38A Demo   | 7.27                      | TN |
|---|---|---------------------------|----|
| Former Campbellsport Convent - School Sisters of St. Francis    | ROBINSON-CAMPBELLSPORT CONVENT<br>Asbestos F/38A Demo<br>Asbestos NF/38C, Demo              | 245.38<br>47.13           |    |
| Port Washington Schools   | ROBINSON-PORT WASHINGTON SCHOOLS<br>Asbestos F/38A Demo<br>Asbestos NF/38C, Demo            | 10.13<br>8.00             |    |
| Rosenow Elementary School                                       | ROBINSON-ROSENOW ELEMENTARY<br>Asbestos F/38A Demo  | 7.47                      | TN |
| Flint Hills Resources Pine Bend, LLC                            | SGS ENVIRO-FLINT HILLS FARM HOUSE DEMO<br>Asbestos NF/38C, Demo                             | 1.48                      | TN |
| Spuncast  | SPUNCAST MIXED LOADS Refractory /9 Sand/6B, Sandblasting other Sludge/13C, Grinding/Maching | 53.76<br>116.51<br>277.85 | TN |
| Veolia ES Technical Solutions - Port Washington                 | VES TS - PORT WA Asbestos F/38A Demo Asbestos NF/38C, Demo                                  | 0.39<br>0.14              |    |
| C. Brakebush  | W D NAVIS 2011<br>Asbestos NF/38C, Demo   | 20.81                     | TN |
| Gene Larsen City of Baraboo Carol Block WI Dells Ranger Station | WAUNAKEE HAULING<br>Asbestos F/38A Demo<br>Asbestos NF/38C, Demo                            | 3.94<br>7.64              |    |
| Wisconsin Metal Cleaning  | WI METAL CLEAN MIXED Other Misc/39, Ind Waste Sludge/13C, Grinding/Maching                  | 9.88<br>24.14             |    |
|   |   | 172,774.29                | TN |

E6 GLACIER RIDGE LANDFILL

41752 03/05/2017 1:10 PM

### **Attachment A-2**

2016 License Renewal Application

#### State of Wisconsin Department of Natural Resources SOLID WASTE TONNAGE/CAPACITY CERTIFICATION/LICENSE RENEWAL

2017

(SEE INSTRUCTIONS)

Form 4400-123 01-07 N505

\*\*\* FORM MUST BE RETURNED BY MARCH 1, 2017 \*\*\*

\*\*\* NO LICENSE FEE DUE NOW \*\*\*

Return form to: WMM - ABIGAIL ERNST

DNR-SOUTH CENTRAL REGION 3911 FISH HATCHERY RD

For Questions Call: ABIGAIL ERNST

(608) 275-3289

FITCHBURG WI, 53711 5397

License # 3068

FID # 114063950

SC 14

I. Facility Information: (All Facilities Complete this Section)

(920) 387-0987

ADVANCED DISPOSAL SERVICES GLACIER RIDGE LLC

LONN WALTER, GEN MGR

ADVANCED DISPOSAL SERVICES GLACIER RIDGE LLC

N7296 HWY V

HORICON, WI 53032

Enter Corrections Below:

Telephone No:

Facility Name: Contact/Title:

Licensee:

Mailing Address:

Landfill > 500,000 Cu Yd

Email: lonn.walter@advanceddisposal.com

The period of this license is OCTOBER 1, 2017 through SEPTEMBER 30, 2018.

II. Application for license renewal to operate a solid waste disposal facility in compliance with s.289.31, Stats. Complete Section III, IV, V and VI and return to the DNR office shown above. If you are applying for renewal, complete or correct the information below:

Site Location: SW 1/4 OF NW 1/4 OF SECTION 35, T12N, R16E, Dodge County

Address: RAASCHS HILL RD Township/City: WILLIAMSTOWN TN

2. Service Areas:

**Dodge County** 

Columbia County

3. Authorized Waste Types:

W050-ASBESTOS W340- GARBAGE

W790- WOOD MATTER

W180- CONTAMINATED SOIL W530- NONCOMBUSTIBLE

W220- DEMOLITION W670- REFUSE

III. Waste Disposal Tonnage/Capacity Certification (All facilities complete Tonnage/Capacity Worksheet) PLEASE NOTE: All 2016 tonnage data must be submitted electronically - rather than on paper copies. An electronic copy of SUPPLEMENTAL DATA TABLE A will be sent to you via e-mail. Please follow the instructions in the e-mail to report your 2016 tonnage data. in compliance with s.289.57 and subch. VI of ch. 289, Stats. and NR 520.14, Wis. Admin. Code.

| WDNR<br>Lic. No.  | Company Name   | Address  | City   | State  | Zip<br>Code    |
|---|--|--|--|--|----------------|
|   | See Attached Listing   | 1140000  |  | State  | 0040           |
|   | -  |  |  |  |                |
|   |  |  | _  |  |                |
|   | -  |  |  |  |                |
|   |  |  | ======   |  |                |
|   | : :  |  | -  |  |                |
|   |  |  | -  |  |                |
|   | -  |  |  |  |                |
|   |  |  |  | <del></del>  | _              |
|   |  |  | -  |  | -              |
|   |  |  |  |  |                |
|   |  |  | _  |  |                |
|   |  |  |  |  |                |
| PLEAS<br>of SUP   | F-State Waste - Waste Amounts Accept<br>SE NOTE: All 2016 tonnage data must be s<br>PPLEMENTAL DATA TABLE B will be sen<br>016 Out-of-State Waste tonnage data.  | submitted electronically - rath  | er than on paper copies. An e  | electronic copy  |                |
| PLEAS<br>of SUP   | SE NOTE: All 2016 tonnage data must be s<br>PPLEMENTAL DATA TABLE B will be sen  | submitted electronically - rath  | er than on paper copies. An e  | electronic copy  |                |
| PLEAS<br>of SUP<br>your 20  | SE NOTE: All 2016 tonnage data must be s<br>PPLEMENTAL DATA TABLE B will be sen  | submitted electronically - rath t to you via e-mail. Please foll nation - In accordance with   | h NR 524. 05, Wis. Adm.  | electronic copy mail to report  Code, submit                                   | t a list of    |
| PLEAS of SUP your 20  | SE NOTE: All 2016 tonnage data must be see PPLEMENTAL DATA TABLE B will be see 016 Out-of-State Waste tonnage data.  fied Facility Manager/Operator Inform   | submitted electronically - rath t to you via e-mail. Please foll nation - In accordance with   | h NR 524. 05, Wis. Adm.  | electronic copy<br>mail to report<br>Code, submit                              |                |
| PLEAS of SUP your 20  L. Certifi certifi For h  | SE NOTE: All 2016 tonnage data must be see PLEMENTAL DATA TABLE B will be sen 016 Out-of-State Waste tonnage data.  fied Facility Manager/Operator Informated facility managers and certified fac  | nation - In accordance with ility operators for this land qualified persons may be   | h NR 524. 05, Wis. Adm. dfill with this license rene   | electronic copy<br>mail to report  Code, submit<br>ewal form.  ddition to cert | ified operator |
| PLEAS of SUP your 20  Certificertifi  For h   | SE NOTE: All 2016 tonnage data must be see PLEMENTAL DATA TABLE B will be sen 016 Out-of-State Waste tonnage data.  fied Facility Manager/Operator Informited facility managers and certified facingh volume industrial waste landfills, fication - I hereby certify that the information in the information is a second serior of the information in the information in the information is a second serior of the information in the information is a second serior of the information in the information is a second serior of the information in the information is a second serior of the information in the information is a second serior of the information in the information is a second serior of the information in the information is a second serior of the information in the information is a second serior of the information in the information is a second serior of the information in the information is a second serior of the information in the information is a second serior of the information in the information is a second serior of the information in the information is a second serior of the information in the information is a second serior of the information in the information in the information is a second serior of the information in the informati | nation - In accordance with ility operators for this land qualified persons may be rmation provided is true a                                | h NR 524. 05, Wis. Adm. dfill with this license rene   | electronic copy<br>mail to report  Code, submit<br>ewal form.  ddition to cert | ified operator |
| PLEAS of SUP your 20  I. Certifi certifi For h  | SE NOTE: All 2016 tonnage data must be see PLEMENTAL DATA TABLE B will be sen 016 Out-of-State Waste tonnage data.  fied Facility Manager/Operator Informited facility managers and certified facingh volume industrial waste landfills, fication - I hereby certify that the information in the information is a second serior of the information in the information in the information is a second serior of the information in the information is a second serior of the information in the information is a second serior of the information in the information is a second serior of the information in the information is a second serior of the information in the information is a second serior of the information in the information is a second serior of the information in the information is a second serior of the information in the information is a second serior of the information in the information is a second serior of the information in the information is a second serior of the information in the information is a second serior of the information in the information is a second serior of the information in the information is a second serior of the information in the information in the information is a second serior of the information in the informati | nation - In accordance with ility operators for this land qualified persons may be rmation provided is true a                                | h NR 524. 05, Wis. Adm. dfill with this license rene listed in place of or in a and accurate to the best of                | electronic copy<br>mail to report  Code, submit<br>ewal form.  ddition to cert | ified operator |
| PLEAS of SUP your 20  Certifi certifi For h   | SE NOTE: All 2016 tonnage data must be see PPLEMENTAL DATA TABLE B will be sen 016 Out-of-State Waste tonnage data.  fied Facility Manager/Operator Informited facility managers and certified facingh volume industrial waste landfills, fication - I hereby certify that the information of the printed of the p | nation - In accordance with ility operators for this land qualified persons may be rmation provided is true a                                | h NR 524. 05, Wis. Adm. dfill with this license rene listed in place of or in a and accurate to the best of ations Manager | Code, submitewal form.  ddition to cert  | ified operator |
| PLEAS of SUP your 20  I. Certifi certifi For h  VII. Certifi  Jacob Jame (Typed of  | SE NOTE: All 2016 tonnage data must be see PLEMENTAL DATA TABLE B will be sen 016 Out-of-State Waste tonnage data.  fied Facility Manager/Operator Informied facility managers and certified facingh volume industrial waste landfills, fication - I hereby certify that the information of the informatio | nation - In accordance with ility operators for this land qualified persons may be rmation provided is true a  Opera  Title  02/24  Date Sig | h NR 524. 05, Wis. Adm. dfill with this license rene listed in place of or in a and accurate to the best of ations Manager | Code, submitewal form.  ddition to cert  | ified operator |
| PLEAS of SUP your 20  Certificertifi  For h  VII. Certification  Jacob  Jacob  gnature of Proposition  gnature of Proposition | SE NOTE: All 2016 tonnage data must be see PLEMENTAL DATA TABLE B will be sen 016 Out-of-State Waste tonnage data.  fied Facility Manager/Operator Informied facility managers and certified facingh volume industrial waste landfills, fication - I hereby certify that the information of the informatio | nation - In accordance with ility operators for this land qualified persons may be rmation provided is true a  Opera  Title  02/24           | h NR 524. 05, Wis. Adm. dfill with this license rene listed in place of or in a and accurate to the best of ations Manager | Code, submitewal form.  ddition to cert  | ified operator |

| WDNR                 | Glacier Ridge 2016 List of Transporters    |                             |                 |    |       |                |      |
|----------------------|--|-----------------------------|-----------------|----|-------|----------------|------|
| HAULING<br>LICENSE # | HAULER                                     | AI                          | TELEPHONE<br>#  |    |       |                |      |
|                      | A & W Iron & Metal                         | 7588 Otten Drive            | Kewaskum        | WI | 53040 | (262) 338-8487 |      |
| 10001                | Advanced Disposal Services - Fort Atkinson | 1215 Klement Street         | Fort Atkinson   | WI | 53538 | (920) 563-4505 |      |
| 11405                | Advanced Disposal Services - Hartland      | 559 Progress Drive          | Hartland        | WI | 53029 | (262) 367-6040 |      |
| 12737                | Advanced Disposal Services - Horicon       | N7296 Highway V             | Horicon         | WI | 53032 | (920) 387-0987 |      |
| 12371                | Advanced Disposal Services - Omro          | 250 Adler Avenue            | Omro            | WI | 54963 | (920) 685-6666 |      |
| 11393                | Advanced Disposal Services - Waunakee      | 300 Raemisch Road           | Waunakee        | WI | 53597 | (608) 807-3218 |      |
| 10570                | Advanced Disposal Services - Sheboygan     | 2905 Paine Avenue           | Sheboygan       | WI | 53081 | (920) 458-6030 |      |
|                      | Advanced Woodworks LLC                     | 113 Washington Street       | Horicon         | WI | 53032 | (920) 485-0909 |      |
| 14698                | American Disposal                          | 807 Elm Street              | Watertown       | WI | 53098 | (920) 988-9730 |      |
| 15534                | American Metal and Paper                   | 7588 Otten Drive            | Kewaskum        | WI | 53040 | (262) 338-8487 |      |
|                      | American RSI                               | W9581 County Trunk S        | Beaver Dam      | WI | 53916 | (920) 887-7500 |      |
|                      | Anderson Landscaping and Maintenance       | 1121 Carrington Avenue      | South Milwaukee | WI | 53172 | (414) 254-8881 |      |
|                      | Badgerland Demolition & Earthwork, Inc.    | 3022 Williams Grant Drive   | De Pere         | WI | 54115 | (920) 532-0437 |      |
| 10711                | Beaver Services                            | W8031 Highway 33            | Beaver Dam      | WI | 53916 | (920) 887-7030 |      |
|                      | Benter Builders                            | N8492 Bancroft Road         | Theresa         | WI | 53091 | (920) 488-2657 |      |
| 15176                | Best Waste Solutions LLC                   | 751 West Oakland Avenue     | Port Washington | WI | 53074 | (262) 478-0630 |      |
|                      | Big Gain Wisconsin                         | W9077 Schutz Road           | Lodi            | WI | 53555 | (608) 592-5760 |      |
|                      | Brian Westphal                             | W8976 Well Road             | Reeseville      | WI | 53579 | (920) 296-8369 |      |
| 14218                | Chief Liquid Waste                         | 210 Tower Road              | Winneconne      | WI | 54986 | (920) 582-7596 |      |
| 13822/14506/15552    | Covanta Environmental Solutions            | 3801k West McKinley Avenue  | Milwaukee       | W  | 53208 | (414) 847-7100 |      |
| 10093                | City of Baraboo                            | 450 Roundhouse Court        | Baraboo         | WI | 53913 | (608) 355-2736 | x224 |
| 10232                | City of Hartford                           | 109 North Main Street       | Hartford        | WI | 53027 | (920) 673-8204 |      |
|                      | City of Horicon                            | 404 East Lake Street        | Horicon         | WI | 53032 | (920) 485-3500 |      |
|                      | City of Mayville                           | 15 South School Street      | Mayville        | WI | 53050 | (920) 387-7980 |      |
|                      | Clayton County Recycling                   | 11645 Echo Avenue           | Monona          | IA | 52159 | (563) 539-4757 |      |
|                      | D. B. Reetz                                | 310 East Lake Street        | Horicon         | WI | 53032 | (920) 485-2149 |      |
|                      | DNR - Horicon                              | N7725 Highway 28            | Horicon         | WI | 53032 | (920) 387-7860 |      |
|                      | Dodge County Highway Dept                  | 211 East Center Street      | Juneau          | WI | 53039 | (920) 386-3650 |      |
|                      | Dodge County Housing Authority             | 491 East Center Street      | Juneau          | WI | 53039 | (920) 386-2866 |      |
|                      | Donegon Construction                       | N4853 County Highway E      | Hustisford      | WI | 53034 | (920) 349-8271 |      |
| 15708                | Eilertson Incorporated                     | 820 Morris Street           | Fond du Lac     | WI | 54935 | (920) 921-8982 |      |
| 13691                | Fischer Truck Service Inc                  | N104 W13075 Donges Bay Road | Germantown      | WI | 53022 | (262) 334-8180 |      |
| 10958                | Fleischman Excavating                      | 1101 Milwaukee Street       | Lomira          | WI | 53048 | (920) 269-4763 |      |
|                      | Giddings Hawkins Maintenance Service       | 2112 South 56th Street      | Milwaukee       | W  | 53219 | (414) 649-8474 |      |
| 12667                | Gene Fredrickson Trucking, Inc             | 4450 Fieldcrest Dr.         | Kaukana         | WI | 54130 | (920) 766-1100 |      |
|                      | Grande Cheese                              | P O Box 67                  | Brownsville     | W  | 53006 | (920) 269-7200 |      |
| 13968                | H.I.S. Corporation                         | 5700 Highway K              | Hartford        | WI | 53027 | (262) 644-5297 |      |
|                      | Hg Transport LLC                           | 1333 Cedar Street           | Green Bay       | WI | 54302 | (920) 435-4681 |      |
|                      | Habitat for Humanity                       | 724 Elm Street, Suite 103   | West Bend       | WI | 53095 | (262) 338-0690 |      |
| 15549                | Hanke Trucking Inc.                        | 765 Hilldale Road           | Slinger         | WI | 53086 | (262) 644-9080 |      |
| 10232                | Hartford Community Development Authority   | 109 North Main Street       | Hartford        | WI | 53027 | (262) 670-3770 |      |
|                      | Havlicek Trucking                          | 303 West Third Street       | Monona          | IA | 52159 | (563) 539-4529 |      |
| 15179                | Hawk Construction LLC                      | 3639 Scenic Drive           | Jackson         | WI | 53037 | (262) 677-9410 |      |
|                      | Heimerl Home & Building                    | 510 North Spring Street     | Beaver Dam      | WI | 53916 | (920) 887-3881 |      |
| 15421                | Iverson & Sons LLC                         | 3190 County Road N          | Cottage Grove   | WI | 53527 | (608) 839-1579 |      |
|                      | lwish Management                           | P O Box 624                 | Slinger         | WI | 53086 | (262) 271-1100 |      |
| 12953                | J J Baumhardt Trucking Inc.                | W3998 Highway 45            | Eden            | WI | 53019 | (920) 477-2611 |      |
| 13625                | J O Trucking                               | W144 S7435 Indian Trail     | Muskego         | WI | 53150 | (414) 422-9223 |      |
| 14312                | Jелу Hepp Excavating                       | P O Box 47                  | Watertown       | WI | 53094 | (920) 261-6739 |      |
| 16446                | Jewell Services LLC                        | W219 S7646 Crowbar Road     | Muskego         | WI | 53150 | (414) 852-4899 |      |
|                      | John Engelhardt and Sons Inc.              | 110 First Street            | Kewaskum        | WI | 53040 | (800) 540-4129 |      |
|                      |  |                             |                 |    |       | •              |      |

| 15556 | Kreilkamp Trucking                                    | 6487 Highway 175                                 | Allenton               | WI  | 53002          | (262) 629-5000                   |
|-------|---|--|------------------------|-----|----------------|----------------------------------|
| 13330 | Krieser Construction                                  | 77 Breckenridge Street                           | Mayville               | WI  | 53050          | (920) 387-2000                   |
|       | Kuehl Contractor                                      | 202 Michael Drive                                | Iron Ridge             | WI  | 53035          | (920) 625-3979                   |
| 12456 | L & H GYR   | P.O. Box 1412                                    | Fond du Lac            | WI  | 54936          | ` '                              |
| 15743 |   |  | –                      | WI  | 54936          | (920) 921-7546                   |
| 15/43 | Landfill Reduction Trucking LLC                       | 3001 East Glendale Avenue, Suite B               | Appleton               | WI  |                | (920) 318-8118                   |
|       | Legacy Construction Services                          | P O Box 9486                                     | Green Bay              |     | 54308<br>53078 | (920) 468-4428                   |
|       | Lorrigan's Quality Home Exteriors Inc.<br>MM Builders | W980 Kelly Drive                                 | Rubicon                | WI  | 53078          | (262) 673-6045                   |
|       | Marks Home Yard Services                              | 230 North German Street<br>1235 Waube Lane       | Mayville<br>Cross Boy  | WI  | 54304          | (920) 387-3642                   |
| 12454 | Mary's Trucking Inc.                                  | 3759 Robert Nelson Lane                          | Green Bay<br>Deerfield | WI  | 53531          | (920) 366-5406<br>(608) 764-8301 |
| 14073 | , ,   |  |                        | WI  | 53050          | (920) 387-4720                   |
| 14073 | Mayville Home Improvement Michael Benzing             | 11 High Street<br>N2475 Highway 67               | Mayville<br>Neosho     | WI  | 53050          | (920) 386-2516                   |
| 14152 | Mid Valley Industrial Services Inc.                   | 718 Industrial Park Avenue                       | Hortonville            | W   | 54944          | (920) 779-9955                   |
| 15479 | Midwest Transfer & Logistics, LLC                     | 300 Raemisch Road, Unit 2                        | Waunakee               | WI  | 53597          | (847) 426-6354                   |
| 15480 | Mittelstadt Inc.                                      | •  | Lomira                 | WI  | 53048          |                                  |
| 15460 |   | W1587 County Road H<br>19400 West Lincoln Avenue | New Berlin             | WI  |                | (920) 269-4268                   |
|       | New Berlin Grading Inc.                               |  |                        |     | 53146          | (262) 542-1772                   |
| 40004 | Nickel's Carpentry                                    | W1616 Raccoon Road                               | Theresa                | WI  | 53091          | (920) 948-3542                   |
| 12361 | North Shore Environmental Construction                | N117 W18493 Fulton Drive                         | Germantown             | WI  | 53022          | (262) 255-4468                   |
|       | Northstar Environmental                               | 417 North Blythe Street                          | Gallatin               | TN  | 37066          | (615) 451-4867                   |
| 15182 | RAMS Contracting Ltd.                                 | W193 N7700 Becker Drive                          | Lannon                 | WI  | 53046          | (262) 251-4209                   |
| 12382 | Robbie D. Wood Inc.                                   | 1051 Old Warrior River Road                      | Dolomite               | AL  | 35061          | (800) 356-7457                   |
| 15408 | Robinson Brothers Environmental                       | 220 Raemisch Road                                | Waunakee               | WI  | 53597          | (608) 849-6980                   |
|       | Rock River Home Improvements                          | N4525 North Hazelwood Road                       | Hustisford             | WI  | 53034          | (920) 349-8335                   |
| 15449 | Schmitt Challenges                                    | W9699 Cty Tk S                                   | Beaver Dam             | WI  | 53916          | (920) 887-2337                   |
|       | Semper FI Roofing                                     | 1400 Ellis Street                                | Waukesha               | WI  | 53186          | (414) 544-4885                   |
| 16405 | SGS Environmental Contracting LLC                     | N2570 Daytona Drive                              | Merrill                | Wi  | 54452          | (715) 539-2803                   |
| 13826 | Sorce Services LLC                                    | 7619 Nordale Avenue                              | Franksville            | WI  | 53126          | (262) 895-3200                   |
|       | Strieter Farms  | 925 East Division Street                         | Watertown              | WI  | 53094          | (920) 925-3060                   |
| 14793 | Synagro Central LLC                                   | 973 North Saunders Drive                         | Oconto Falls           | WI  | 54154          | (920) 373-5521                   |
|       | Town of Burnett                                       | W6273 Park Drive                                 | Burnett                | WI  | 53922          | (920) 885-5529                   |
|       | Town of Lomira  | N11392 County Road AY                            | Brownsville            | WI  | 53006          | (920) 583-2600                   |
|       | Town of Rubicon                                       | P O Box 105                                      | Rubicon                | WI  | 53078          | (920) 673-3413                   |
| 12480 | Town & Country Sanitation                             | 101 North Park Street                            | Boscobel               | WI  | 53805          | (920) 373-5521                   |
| 10958 | Town & Country Underground Utility                    | W2899 Dunn Road                                  | Mayville               | WI  | 53050          | (920) 387-2394                   |
|       | Trans Environmental                                   | 8184 Starwood Drive                              | Loves Park             | IL  | 61111          | (815) 885-4840                   |
|       | Twin Lakes Transit                                    | 103 Jennifer Lane                                | Eden                   | WI  | 53019          | (920) 477-5301                   |
|       | United Liquid Waste                                   | P.O. Box 247                                     | Clyman                 | WI  | 53016          | (920) 696-3248                   |
| 15533 | Valley Hydro-Excavation LLC                           | N2496 Highway 45                                 | Campbellsport          | WI  | 53010          | (920) 533-5927                   |
| 13783 | Veolia ES Industrial Services - Germantown            | N104 W13275 Donges Bay Road                      | Germantown             | WI  | 53022          | (262) 512-8002                   |
| 13783 | Veolia ES Industrial Services - Sheboygan             | 2905 Paine Avenue                                | Sheboygan              | WI  | 53082          | (920) 458-6030                   |
| 13800 | Veolia ES Technical Solutions - Menomonee Falls       | W124 N9451 Boundry Road                          | Menomonee Falls        | WI  | 53051          | (800) 255-5092                   |
|       | Village of Hartland                                   | 210 Cottonwood Avenue                            | Hartland               | WI  | 53029          | (262) 367-2714                   |
| 14023 | Village of Hustisford                                 | P.O. Box 345                                     | Hustisford             | WI  | 53034          | (920) 349-3188                   |
|       | Village of Iron Ridge                                 | P O Box 247                                      | Iron Ridge             | WI  | 53035          | (920) 387-3975                   |
| 10798 | Village of Lomira                                     | 549 Church Street                                | Lomira                 | WI  | 53048          | (920) 269-8155                   |
| 13228 | W D Navis   | N2747 Highway 26                                 | Waupun                 | WI  | 53963          | (920) 324-9541                   |
| 13173 | Washington County Highway Department                  | 900 Lang Street                                  | West Bend              | W   | 53090          | (262) 335-4435                   |
| 15702 | Woldt Farms   | N9594 County Road PP                             | Brillion               | WI  | 54110          | (414) 371-7737                   |
|       | Wondra Construction Inc.                              | W2874 Graylog Road                               | Iron Ridge             | WI. | 53035          | (920) 387-5840                   |
|       |   |  |                        |     |                |                                  |



# ADVANCED DISPOSAL SERVICES GLACIER RIDGE LANDFILL, LLC

N7296 Highway V Horicon, WI 53032 Telephone: (920) 387-0987 Fax: (920) 387-0980

glacierridge@advanceddisposal.com WDNR Facility ID #114063950; License #03068

#### **Facility Managers**

Jacob A. Margelofsky
Certification Number: 70987
Beginning June 2, 2016 and Expiring June 1, 2018

Jared A. Ross
Certification Number: 71387
Beginning August 10, 2016 and Expiring August 1, 2018

#### **Site Operators**

Frederic B. Benishek
Certification Number: 71301
Beginning November 2, 2015 and Expiring November 1, 2017

Jeffrey S. Ross
Certification Number: 70377
Beginning October 2, 2015 and Expiring October 1, 2017

Willis T. Sage Jr.
Certification Number: 70362
Beginning October 2, 2015 and Expiring October 1, 2017





JACOB A MARGELOFSKY 318 KRIESER DR MAYVILLE WI 53050

This certificate recognizes that

#### **JACOB A MARGELOFSKY**

**Certification No: 70987** 

has met the requirements of Ch. NR 524, Wis. Adm. Code, as a certified operator:

# Solid Waste Disposal Facility Operator Certification

FACILITY MANAGER

Certification begins on June 2, 2016 and expires on June 1, 2018

For renewal of this certificate, you will need 8 continuing education hours before this certificate expires.

Cathy Stepp, Secretary

Department of Natural Resources

Printed on 07/11/16





JARED A ROSS 111 KNAUP DRIVE #15 BEAVER DAM WI 53916

This certificate recognizes that

#### **JARED A ROSS**

Certification No: 71387

has met the requirements of Ch. NR 524, Wis. Adm. Code, as a certified operator:

## **Solid Waste Disposal Facility Operator Certification**

**FACILITY MANAGER** 

Certification begins on August 10, 2016 and expires on August 1, 2018

For renewal of this certificate, you will need 8 continuing education hours before this certificate expires.

Cathy Stepp, Secretary

Carly Stige

Department of Natural Resources

Printed on 02/24/17





FREDERIC B BENISHEK W3108 WEST NEDA RD IRON RIDGE WI 53035

This certificate recognizes that

### FREDERIC B BENISHEK

Certification No: 71301

has met the requirements of Ch. NR 524, Wis. Adm. Code, as a certified operator:

# Solid Waste Disposal Facility Operator Certification

SITE OPERATOR

Certification begins on November 2, 2015 and expires on November 1, 2017

For renewal of this certificate, you will need 4 continuing education hours before this certificate expires.

Cathy Stepp, Secretary

Department of Natural Resources

Printed on 01/11/16





JEFFREY S ROSS 205 RICH ST HORICON WI 53032

This certificate recognizes that

### **JEFFREY S ROSS**

Certification No: 70377

has met the requirements of Ch. NR 524, Wis. Adm. Code, as a certified operator:

# Solid Waste Disposal Facility Operator Certification

SITE OPERATOR

Certification begins on October 2, 2015 and expires on October 1, 2017

For renewal of this certificate, you will need 4 continuing education hours before this certificate expires.

City Stigo

Cathy Stepp, Secretary

Department of Natural Resources

Printed on 01/11/16

Certification information and training opportunites can be found at http://dnr.wi.gov by searching keywords "Operator Certification"





WILLIS T SAGE JR N7480 MUHLE CT BEAVER DAM WI 53916

This certificate recognizes that

WILLIS T SAGE JR

Certification No: 70362

has met the requirements of Ch. NR 524, Wis. Adm. Code, as a certified operator:

# Solid Waste Disposal Facility Operator Certification

SITE OPERATOR

Certification begins on October 2, 2015 and expires on October 1, 2017

For renewal of this certificate, you will need 4 continuing education hours before this certificate expires.

Cathy Stepp, Secretary

Department of Natural Resources

Printed on 01/11/16

Certification information and training opportunites can be found at http://dnr.wi.gov by searching keywords "Operator Certification"

#### Calendar Year 2016 Waste Disposal Tonnage/Capacity Certification Report Supplemental Data Table A

Name of Landfill: Advanced Disposal Services Glacier Ridge Landfill, LLC
Landfill License Number: 03068
Landfill FID Number: 114063950

Est. Capacity Jan. 2016: 8,200,484

| Category<br>Number | Waste Type – Category Name   |                     | Conv. Factor<br>(See Instructions for |               |
|--------------------|--|---------------------|---------------------------------------|---------------|
|                    |  | Total 2016 Tonnages | Conversion Factors)                   | Volume-CU Yds |
| 1                  | MUNICIPAL SOLID WASTE (Household and Commercial Sources)   | 376,097             | 1,200                                 | 626,82        |
| 2                  | ASHES AND SLUDGES FROM ELECTRIC AND PROCESS STEAM GENERATING FACILITIES - EXEMPT FROM RECYCLING FEE  | 0                   | 2,400                                 |               |
| 3                  | PULP OR PAPERMILL SLUDGES PRODUCED BY WASTE TREATMENT OR MFG PROCESSES - EXEMPT FROM RECYCLING FEE   | 62.231              | 2,200                                 | 50.57         |
| 4                  | MANUFACTURING SOLID WASTE PRODUCED FROM FOUNDRIES  | 9,204               | ,                                     | 56,57         |
|                    | - EXEMPT FROM RECYCLING FEE  |                     | 3,000                                 | 6,13          |
| 5                  | SLUDGES PRODUCED BY MUNICIPAL WASTEWATER TREATMENT PLANTS  | 6,901               | 1,684                                 | 8,19          |
| 6                  | ALL OTHER SOLID WASTES NOT DESIGNATED AS HAZARDOUS WASTE AND DO NOT FIT INTO CATEGORY 1 THROUGH 5 OR CATEGORY 19 THROUGH 29  | 34,793              | 1,200                                 | 57,98         |
| 19                 | WASTE USED AS DAILY COVER, BERMS, DIKES, ETC.  | 50.004              | 2 200                                 | 50.00         |
|                    | – EXEMPT FROM ALL ENVIRONMENTAL FEES   | 50,024              | 2,000                                 | 50,02         |
| 20                 | ASH FROM INCINERATION FOR ENERGY RECOVERY - EXEMPT FROM RECYCLING FEE  | 0                   | 2,400                                 |               |
| 21                 | HIGH VOLUME WASTE USED AS DAILY COVER, BERMS, DIKES, ETC - EXEMPT FROM ALL ENVIRONMENTAL FEES  | 0                   | 2,000                                 |               |
| 22                 | SHREDDER FLUFF USED AS DAILY COVER, BERMS, DIKES, ETC - EXEMPT FROM ALL ENVIRONMENTAL FEES   | 7,780               | 2,000                                 | 7,78          |
| 23                 | PETROLEUM CONTAMINATED SOILS USED AS DAILY COVER, BERMS, DIKES, ETC - EXEMPT FROM ALL ENVIRONMENTAL FEES   | 1,810               | 3,000                                 | 1,20          |
| 24                 | WASTE MATERIAL THAT IS REMOVED FROM RECYCLED MATERIALS INTENDED FOR USE AS RECYCLED FIBER BY A PERSON THAT MAKES PAPER, PULP, OR PAPERBOARD FROM WASTEPAPER, IF THE WASTE MATERIAL CANNOT BE USED TO MAKE PAPER, PULP, OR PAPERBOARD  -EXEMPT FROM RECYCLING FEE   | 32                  | 2,200                                 | 2:            |
| 25                 | CONSTRUCTION & DEMOLITION (C&D) WASTE - SUBJECT TO ALL THE SAME FEE CATEGORIES AS CATEGORY 1 WASTE   | 28.464              | 1.250                                 | 45,54         |
| 26                 | CATEGORIES AS CATEGORT I WASTE SEDIMENTS CONTAMINATED WITH PCBs THAT MEET THE CRITERIA IN s. 289.645(4)(d), & s. 289.67(1)(cv), WIS STATS EXEMPT FROM RECYCLING FEE  | 20,10               | 2,000                                 | 10,0          |
| 27                 | - EXEMPT FROM RECYCLING FEE WASTE GENERATED BY A NONPROFIT ORGANIZATION THAT MEETS THE CRITERIA IN S. 289.645(4)(b), WIS. STATS EXEMPT FROM RECYCLING FEE  | 9,348               | 1,200                                 | 15,579        |
| 28                 | SOLID WASTE MATERIALS GENERATED AS A RESULT OF A NATURAL DISASTER THAT MEET THE CRITERIA IN S. 289.63(6)(B), 289.64(4)(B), 289.645(4)(F) & 289.67(1)(F)M), WIS. STATS EXEMPT FROM ALL ENVIRONMENTAL FEES. (EFFECTIVE JULY 1, 2011)   | 0                   | 1,250                                 | (             |
| 29                 | WASTE REMOVED AT THE REQUEST OF THE DNR IN ORDER TO MITIGATE POTENTIAL ENVIRONMENTAL IMPACTS IN ACCORDANCE WITH S. 289.675, WIS. STATS. (EFFECTIVE APRSL 25. 2014)   | 54                  | 3,000                                 | 3             |
| 30                 | Solid waste materials generated by a qualified materials recovery facility (QMRF) as described in s. 289.63(6)(d)1.a, s. 289.644(4)(d)1.a, s. 289.645(4)(h)1.a. and s. 289.67(f)1)1.a. in an amount equal to the weight of the residue generated by the QMRF or 10% of the total weight of material accepted by the QMRF, whichever is less. (Effective January 1, 2015) Residues that exceed the 10% cap should be  | 881                 | 1,250                                 | 1,40          |
| 31                 | renorted as Category 1 Waste.  Solid waste materials generated by a qualified materials recovery facility (QMRF) as described in s.  289.63(6)(d)1.b., s. 289.64(4)(d)1.b, s. 289.645(4)(h)1.b. and s. 289.67(f)j1.b. in an amount equal to the weight of the residue generated by the QMRF or 30% of the total weight of material accepted by the QMRF, whichever is less. (Effective January 1, 2015) Residues that exceed the 30% cap should be reported as Category 25 wasters | 8,801               | 1,250                                 | 14,08         |
|                    | Totals   | 596,418             |                                       | 891.40        |

Est. Remaining Site Life in Years: 8 Est. Capacity Jan. 2017: 7,309,075

Note: The tonnage reported in category 29 represents disposal of C & D like material, which disposal expense was paid with WDNR funds.

#### Calendar Year 2016 Out of State WasteTonnage Report Supplemental Data Table B

| Name of Landfill:        | Advanced Disposal Services | Glacier Ridge | Landfill, LLC |  |          |
|--------------------------|----------------------------|---------------|---------------|--|----------|
| Landfill License Number: | 03068                      |               |               |  | <u> </u> |
| Landfill FID Number:     | 114063950                  |               |               |  |          |

Waste Categories

| State of |                     | Cat. 1 | Cat. 2 | Cat. 3 | Cat. 4 | Cat. 5  | Cat. 6 |              |              |              |              |              |              |              |              |              |              |              | Cat. 30 | Cat. 31 |  |
|----------|---------------------|--------|--------|--------|--------|---------|--------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|---------|---------|--|
| Orgin    | Community           | Tons   | Tons   | Tons   | Tons   | Tons    | Tons   | Cat. 19 Tons | Cat. 20 Tons | Cat. 21 Tons | Cat. 22 Tons | Cat. 23 Tons | Cat. 24 Tons | Cat. 25 Tons | Cat. 26 Tons | Cat. 27 Tons | Cat. 28 Tons | Cat. 29 Tons | Tons    | Tons    | Totals   |
|          | Monona              |        |        |        |        |         |        |              |              |              | 1005.49      |              |              |              |              |              |              |              |         |         | 1005   |
|          | Charles City        |        |        |        |        | 1367.82 | 85.17  |              |              |              |              |              |              |              |              |              |              |              |         |         | 1452   |
|          |                     |        |        |        |        |         |        |              |              |              |              |              |              |              |              |              |              |              |         |         |  |
|          |                     |        |        |        |        |         |        |              |              |              |              |              |              |              |              |              |              |              |         |         |  |
|          |                     |        |        |        |        |         |        |              |              |              |              |              |              |              |              |              |              |              |         |         |  |
|          |                     |        |        |        |        |         |        |              |              |              |              |              |              |              |              |              |              |              |         |         |  |
|          |                     |        |        |        |        |         |        |              |              |              |              |              |              |              |              |              |              |              |         |         |  |
|          |                     |        |        |        |        |         |        |              |              |              |              |              |              |              |              |              |              |              |         |         |  |
|          |                     |        |        |        |        |         |        |              |              |              |              |              |              |              |              |              |              |              |         |         |  |
|          |                     |        |        |        |        |         |        |              |              |              |              |              |              |              |              |              |              |              |         |         |  |
|          |                     |        |        |        |        |         |        |              |              |              |              |              |              |              |              |              |              |              |         |         |  |
|          |                     |        |        |        |        |         |        |              |              |              |              |              |              |              |              |              |              |              |         |         |  |
|          |                     |        |        |        |        |         |        |              |              |              |              |              |              |              |              |              |              |              |         |         |  |
|          |                     |        |        |        |        |         |        |              |              |              |              |              |              |              |              |              |              |              |         |         | ļ  |
|          |                     |        |        |        |        |         |        |              |              |              |              |              |              |              |              |              |              |              |         |         |  |
|          |                     |        |        |        |        |         |        |              |              |              |              |              |              |              |              |              |              |              |         |         |  |
|          |                     |        |        |        |        |         |        |              |              |              |              |              |              |              |              |              |              |              |         |         |  |
|          |                     |        |        |        |        |         |        |              |              |              |              |              |              |              |              |              |              |              |         |         |  |
|          |                     |        |        |        |        |         |        |              |              |              |              |              |              |              |              |              |              |              |         |         |  |
|          |                     |        |        |        |        |         |        |              |              |              |              |              |              |              |              |              |              |              |         |         |  |
|          |                     |        |        |        |        |         |        |              |              |              |              |              |              |              |              |              |              |              |         |         |  |
|          |                     |        |        |        |        |         |        |              |              |              |              |              |              |              |              |              |              |              |         |         | <del> </del>                                     |
|          |                     |        |        |        |        |         |        |              |              |              |              |              |              |              |              |              |              |              |         |         | <del>                                     </del> |
|          |                     |        |        |        |        |         |        |              |              |              |              |              |              |              |              |              |              |              |         |         | <del>                                     </del> |
|          | Waste Category Tota | 0      | 0      |        |        | 1367.82 | 85.17  |              |              |              | 1005.49      |              |              |              |              |              |              |              |         |         | 2458.  |

### **Attachment A-3**

Shredder Fluff Analytical Data



December 2, 2015

Clayton County Recycling 11645 Echo Avenue Monona, IA 52129-0607

Attn:

Ms. Gina Roys, Controller

Re:

Special Waste Approval Letter

Dear Ms. Roys:

We are pleased to advise that the special waste listed below was recertified on 12/02/15 for disposal at the Glacier Ridge Landfill. The attached profile is your documentation that verifies this waste stream is not a hazardous or unauthorized waste and also verifies approval to accept this waste stream by the Glacier Ridge Landfill as indicated by the signature of our approvals department and our general manager. The waste approval is valid as follows:

Generator:

Clayton County Recycling

**Address of Waste Generated:** 

11645 Echo Avenue, Monona, IA 52129

Waste Stream:

Fluff, Shredded Auto Residue

Waste Category:

26A

Profile Number:

GRL 07027

Profile Recertification Date:

02/18/16 (See attached)

Waste Disposal Method:

Direct

Please note the special conditions for acceptance are as follows:

- 1. Each load must have a manifest signed by an authorized representative or agent of Clayton County Recycling accompanying the waste for disposal.
- 2. Any change in process or waste stream voids this approval. New waste will need to be profiled, including new chemical analysis and or MSDS Sheets if applicable, and submitted for review and approval prior to acceptance.
- 3. All loads must be properly tarped and hauled by a licensed transporter.
- 4. PCB leachability will need to be run for the next recertification.

We greatly appreciate the confidence and trust you have placed in selecting Glacier Ridge Landfill to manage your disposal needs. As an additional note, we have fulfilled all Wisconsin DNR regulations and our landfill meets or exceeds the design, construction, and operating standards promulgated under 40 CFR 258.

If you have questions or need assistance with additional waste disposal, please do not hesitate to contact us at (920) 387-0987.

Sincerely,

ADVANCED DISPOSAL SERVICES GLACIER RIDGE LANDFILL, LLC

Jayne Fae Walter

Administrative Assistant

JFW/smr Attachment

N7296 Highway V

Horicon, WI 53032

Telephone: (920) 387-0987

Fax: (920) 387-0980

AdvancedDisposal.com



cc: Regional Landfill Operations Manager

# **Approval Review Form**

| Landfill Used for Disposal:  | Seven Mile Creek/ Glacier Ridge/ Cran    | berry Creek        | GR      | 16 07057       |
|------------------------------|--|--------------------|---------|----------------|
| Generator Name:              | Clayton county                           | Profile Numbe      | r:_AC   | C              |
| Waste Name:                  | Fluff                                    |                    |         |                |
|                              |  |                    |         |                |
| Has a completed profi        | ile been submitted including the followi | ng: Yes            | No      | N/A            |
| Generator Nan                | ne and Address                           | $\boxtimes$        |         |                |
| Acceptable Wa                | aste Name and Process Generating the N   | Waste 🖾            |         |                |
| Waste is Non-l               | Hazardous                                | $\boxtimes$        |         |                |
| Acceptable Co                | mposition and Physical Characteristics   | $\boxtimes$        |         |                |
| Complete Sam                 | ple Information and/or MSDSs             | $\boxtimes$        |         |                |
| Properly Signe               | d by the Generator                       | $\boxtimes$        |         |                |
| State Approval               | Required and Granted                     |                    |         | $\boxtimes$    |
|                              |  |                    |         |                |
| Waste Category: 26           |  | od:                |         | 11.00          |
|                              | 8/16 (see attacked)                      |                    |         |                |
| Frequency of Testing:        | Parameters to b                          | e Tested:          |         |                |
| Conditions of Approval:      |  |                    |         |                |
|                              |  |                    |         |                |
|                              |  | 900                |         | 7-0            |
|                              |  |                    |         |                |
|                              |  |                    |         |                |
| Based on a review of the int | formation submitted by the generator t   | he above reference | ed wa   | ste i <b>s</b> |
| acceptable for disposal.     |  |                    |         |                |
|                              | 7//                                      |                    |         | 10 -           |
| Veolia Technical Solutions S | ignature:                                |                    | Date: ¿ | 12-2-15        |
| Landfill General Manager Si  | anatura: Lil Watto                       |                    | Date:   | p/2/1          |
| Landini General Manager Si   | griature. (MM)                           |                    | Jale.   | 11/2/11/2      |
| Landfill General Manager Pi  | rinted Name. Lon P. Wast                 |                    |         |                |

#### **Jayne Walter**

From: Bechard, Tim <tim.bechard@veolia.com>
Sent: Wednesday, December 02, 2015 1:24 PM

**To:** Jayne Walter; Dean Besiada

**Subject:** Clayton county

It is approved untill 2/18/16 not 11

Tim Bechard Approvals Coordinator Veolia ES Technical Solutions, L.L.C. 1275 Minaeral Springs Drive Port Washington, WI 53074 (262) 243-8903 (262) 268-1962 tim.bechard@yeolia.com

#### **Jayne Walter**

From:Tim Bechard <tim.bechard@veolia.com>Sent:Wednesday, December 02, 2015 12:14 PMTo:James Davis; Dean Besiada; Jayne WalterSubject:Message from "RNP0026737DDF02"

**Attachments:** 20151202131424288.pdf

This E-mail was sent from "RNP0026737DDF02" (MP C6502).

Scan Date: 12.02.2015 13:14:24 (-0500)

Queries to: noreply@veolia.com



Clayton County Recycling 11645 Echo Avenue Monona, IA 52129-0607

Attn:

Ms. Gina Roys

Re: Special Waste Profile #GRL 07027 - Disposal of Auto Shredder Fluff and Fines

Dear Gina:

This letter is being submitted to notify you that the approval to dispose of the above-referenced waste needs to be recertified in order to continue shipping the waste to our facility. There are two alternatives for recertifying the information contained on the profile. If there have been any changes in the process generating the waste or materials used in the process, alternative number 1 must be used.

- 1. Complete and sign the attached profile, noting any changes which have occurred in the process during the past year. Return the profile to my attention. Include with the profile copies of MSDSs for any new materials used in the process and any additional analysis that may have been performed on the waste.
- 2. If no changes have occurred in the process generating the waste complete the certification section below and return this letter to my attention, together with an updated analytical report for this material.

I have reviewed the process generating the waste and the information submitted to obtain the original disposal approval. Based on this review, I certify that no changes have occurred in the process generating the waste or the materials used in the process, and the information originally submitted continues to be representative of the

Should you have any questions with regard to this matter, please feel free to contact me.

Sincerely,

ADVANCED DISPOSAL SERVICES GLACIER RIDGE LANDFILL, LLC

By Jayre Levilley

Approvals Signature and Date

Jayne fae Walter

Administrative Assistant

Enclosure

Recertification Date:



# <u>TestAmerica</u>

THE LEADER IN ENVIRONMENTAL TESTING

# **ANALYTICAL REPORT**

TestAmerica Laboratories, Inc. TestAmerica Cedar Falls 704 Enterprise Drive Cedar Falls, IA 50613 Tel: (319)277-2401

TestAmerica Job ID: 310-69122-1 Client Project/Site: 110615 PM

For:

Clayton County Recycling 11645 Echo Avenue PO BOX 861 Monona, Iowa 52159

Attn: Gina Roys

Authorized for release by: 11/30/2015 9:03:39 AM

Shali Brown, Project Manager II (615)301-5031 shali.brown@testamericainc.com

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Client: Clayton County Recycling Project/Site: 110615 PM

# **Table of Contents**

| Cover Page            | 1  |
|-----------------------|----|
| Table of Contents     |    |
| Case Narrative        | 3  |
| Sample Summary        | 4  |
| Client Sample Results |    |
| Chronicle             |    |
| Definitions           | 7  |
| Certification Summary | 8  |
| Method Summary        | 9  |
| Chain of Custody      | 10 |
| Receipt Checklists    |    |

#### **Case Narrative**

Client: Clayton County Recycling

Project/Site: 110615 PM

Job ID: 310-69122-1

Laboratory: TestAmerica Cedar Falls

**Narrative** 

Job Narrative 310-69122-1

#### Comments

No additional comments.

#### Receipt

The sample was received on 11/16/2015 8:50 AM; the sample arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 13.9° C.

#### **Receipt Exceptions**

The following sample was received at the laboratory outside the required temperature criteria and without a collection time listed on the chain of custody: 110615 PM (310-69122-1). The client was contacted regarding this issue.

#### GC Semi VOA

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

#### Metals

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

#### **General Chemistry**

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

#### **Organic Prep**

Method(s) 1311: EPA Method 1311 requires the room temperature to be maintained at 23 +/- 2 degrees Celsius for the duration of the leaching process. For batch 109066, the temperature 20.4-22.7 was outside of this range.

Method(s) 3550B: The following sample was prepared with less sample due to the nature of the sample matrix: 110615 PM (310-69122-1). Elevated reporting limits (RLs) are provided.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

TestAmerica Job ID: 310-69122-1

# **Sample Summary**

Client: Clayton County Recycling Project/Site: 110615 PM

TestAmerica Job ID: 310-69122-1

Lab Sample ID **Client Sample ID** Matrix Collected Received 310-69122-1 110615 PM Solid 11/06/15 00:00 11/16/15 08:50

# **Client Sample Results**

Client: Clayton County Recycling

Project/Site: 110615 PM

TestAmerica Job ID: 310-69122-1

Lab Sample ID: 310-69122-1

Matrix: Solid

Client Sample ID: 110615 PM

Date Collected: 11/06/15 00:00 Date Received: 11/16/15 08:50

| Method: 6010C - Metals (ICP) | - TCLP     |           |         |     |           |   |                |                |         |
|------------------------------|------------|-----------|---------|-----|-----------|---|----------------|----------------|---------|
| Analyte                      | Result     | Qualifier | RL      | MDL | Unit      | D | Prepared       | Analyzed       | Dil Fac |
| Arsenic                      | < 0.300    |           | 0.300   |     | mg/L      |   | 11/17/15 12:04 | 11/18/15 14:09 | 1       |
| Barium                       | <0.500     |           | 0.500   |     | mg/L      |   | 11/17/15 12:04 | 11/18/15 14:09 | 1       |
| Cadmium                      | 0.0275     |           | 0.0200  |     | mg/L      |   | 11/17/15 12:04 | 11/18/15 14:09 | 1       |
| Chromium                     | < 0.0200   |           | 0.0200  |     | mg/L      |   | 11/17/15 12:04 | 11/18/15 14:09 | 1       |
| Lead                         | <0.100     |           | 0.100   |     | mg/L      |   | 11/17/15 12:04 | 11/18/15 14:09 | 1       |
| Selenium                     | < 0.150    |           | 0.150   |     | mg/L      |   | 11/17/15 12:04 | 11/18/15 14:09 | 1       |
| Silver                       | <0.0200    |           | 0.0200  |     | mg/L      |   | 11/17/15 12:04 | 11/18/15 14:09 | 1       |
| Method: 7470A - Mercury (CV  | AA) - TCLP |           |         |     |           |   |                |                |         |
| Analyte                      | Result     | Qualifier | RL      | MDL | Unit      | D | Prepared       | Analyzed       | Dil Fac |
| Mercury                      | <0.00200   |           | 0.00200 |     | mg/L      |   | 11/17/15 12:07 | 11/17/15 15:23 | 1       |
| General Chemistry            |            |           |         |     |           |   |                |                |         |
| Analyte                      | Result     | Qualifier | RL      | RL  | Unit      | D | Prepared       | Analyzed       | Dil Fac |
| BTU                          | 4130       |           | 200     |     | BTU/lb    |   |                | 11/27/15 13:51 | 1       |
| Flashpoint                   | >215       |           | 40.0    |     | Degrees F |   |                | 11/17/15 15:02 | 1       |
| General Chemistry - Soluble  |            |           |         |     |           |   |                |                |         |
| Analyte                      | Result     | Qualifier | RL      | RL  | Unit      | D | Prepared       | Analyzed       | Dil Fac |
|                              |            |           |         |     |           |   |                |                |         |

Client Sample ID: 110615 PM

Date Collected: 11/06/15 00:00 Date Received: 11/16/15 08:50 Lab Sample ID: 310-69122-1

Matrix: Solid Percent Solids: 92.0

| Analyte                       | Result    | Qualifier | RL       | MDL | Unit          | D   | Prepared                | Analyzed                   | Dil Fac |
|-------------------------------|-----------|-----------|----------|-----|---------------|-----|-------------------------|----------------------------|---------|
| PCB-1016                      | < 0.640   |           | 0.640    |     | mg/Kg         | ₩   | 11/18/15 12:23          | 11/19/15 18:46             | 1       |
| PCB-1221                      | < 0.640   |           | 0.640    |     | mg/Kg         | ₩   | 11/18/15 12:23          | 11/19/15 18:46             | 1       |
| PCB-1232                      | < 0.640   |           | 0.640    |     | mg/Kg         | ₩   | 11/18/15 12:23          | 11/19/15 18:46             | 1       |
| PCB-1242                      | 0.769     |           | 0.640    |     | mg/Kg         | Ø   | 11/18/15 12:23          | 11/19/15 18:46             | 1       |
| PCB-1248                      | < 0.640   |           | 0.640    |     | mg/Kg         | Ø   | 11/18/15 12:23          | 11/19/15 18:46             | 1       |
| PCB-1254                      | < 0.640   |           | 0.640    |     | mg/Kg         | Ø   | 11/18/15 12:23          | 11/19/15 18:46             | 1       |
| PCB-1260                      | < 0.640   |           | 0.640    |     | mg/Kg         | ¤-  | 11/18/15 12:23          | 11/19/15 18:46             | 1       |
| PCB-1268                      | <0.640    |           | 0.640    |     | mg/Kg         | ₽   | 11/18/15 12:23          | 11/19/15 18:46             | 1       |
| Surrogate                     | %Recovery | Qualifier | Limits   |     |               |     | Prepared                | Analyzed                   | Dil Fac |
| DCB Decachlorobiphenyl (Surr) | 68        |           | 10-110   |     |               |     | 11/18/15 12:23          | 11/19/15 18:46             | 1       |
| Tetrachloro-m-xylene          | 55        |           | 10 - 110 |     |               |     | 11/18/15 12:23          | 11/19/15 18:46             | 1       |
| General Chemistry<br>Analyte  | Popult    | Qualifier | RL       | MDL | 11            |     | Duamarad                | Austraad                   | Dil F   |
| Halogens, Extractable Organic | 795       | Quaimer   | 89.3     | MDL | Unit<br>mg/Kg | D D | Prepared 11/19/15 14:31 | Analyzed<br>11/23/15 10:19 | Dil Fac |

### **Lab Chronicle**

Client: Clayton County Recycling

Project/Site: 110615 PM

TestAmerica Job ID: 310-69122-1

Lab Sample ID: 310-69122-1 Client Sample ID: 110615 PM

Date Collected: 11/06/15 00:00 Matrix: Solid

Date Received: 11/16/15 08:50

| Prep Type | Batch<br>Type | Batch<br>Method | Run | Dilution<br>Factor | Batch<br>Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|---------------|-----------------|-----|--------------------|-----------------|----------------------|---------|---------|
| TCLP      | Leach         | 1311            |     |                    | 109066          | 11/16/15 07:47       | EEE     | TAL CF  |
| TCLP      | Prep          | 3010A           |     |                    | 109133          | 11/17/15 12:04       | SAD     | TAL CF  |
| TCLP      | Analysis      | 6010C           |     | 1                  | 109366          | 11/18/15 14:09       | OAD     | TAL CF  |
| TCLP      | Leach         | 1311            |     |                    | 109066          | 11/16/15 07:47       | EEE     | TAL CF  |
| TCLP      | Prep          | 7470A           |     |                    | 109134          | 11/17/15 12:07       | SAD     | TAL CF  |
| TCLP      | Analysis      | 7470A           |     | 1                  | 109204          | 11/17/15 15:23       | SAD     | TAL CF  |
| Soluble   | Leach         | DI Leach        |     |                    | 108755          | 11/17/15 10:45       | SAS     | TAL CF  |
| Soluble   | Analysis      | 9045D           |     | 1                  | 109170          | 11/17/15 12:51       | SAS     | TAL CF  |
| Total/NA  | Analysis      | D240-87         |     | 1                  | 302101          | 11/27/15 13:51       | YSJ     | TAL NSH |
| Total/NA  | Analysis      | D92             |     | 1                  | 109185          | 11/17/15 15:02       | JCF     | TAL CF  |

Client Sample ID: 110615 PM

Date Collected: 11/06/15 00:00

Date Received: 11/16/15 08:50

Lab Sample ID: 310-69122-1

Matrix: Solid Percent Solids: 92.0

|           | Batch    | Batch  |     | Dilution | Batch  | Prepared       |         |         |
|-----------|----------|--------|-----|----------|--------|----------------|---------|---------|
| Prep Type | Type     | Method | Run | Factor   | Number | or Analyzed    | Analyst | Lab     |
| Total/NA  | Prep     | 3550B  |     |          | 109340 | 11/18/15 12:23 | EEE     | TAL CF  |
| Total/NA  | Analysis | 8082A  |     | 1        | 109539 | 11/19/15 18:46 | BKT     | TAL CF  |
| Total/NA  | Prep     | 9023   |     |          | 299155 | 11/19/15 14:31 | CLJ     | TAL NSH |
| Total/NA  | Analysis | 9023   |     | 1        | 299452 | 11/23/15 10:19 | CLJ     | TAL NSH |

#### Laboratory References:

TAL CF = TestAmerica Cedar Falls, 704 Enterprise Drive, Cedar Falls, IA 50613, TEL (319)277-2401 TAL NSH = TestAmerica Nashville, 2960 Foster Creighton Drive, Nashville, TN 37204, TEL (615)726-0177

## **Definitions/Glossary**

Client: Clayton County Recycling

Project/Site: 110615 PM

TestAmerica Job ID: 310-69122-1

#### Qualifiers

#### **General Chemistry**

Qualifier Qualifier Description

H Sample was prepped or analyzed beyond the specified holding time

#### Glossary

| Abbreviation | These commonly used abbreviations may or may not be present in this report.                |
|--------------|--|
| D            | Listed under the "D" column to designate that the result is reported on a dry weight basis |

%R Percent Recovery
CFL Contains Free Liquid
CNF Contains no Free Liquid

DER Duplicate error ratio (normalized absolute difference)

Dil Fac Dilution Factor

DL, RA, RE, IN Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample

DLC Decision level concentration
MDA Minimum detectable activity
EDL Estimated Detection Limit

MDC Minimum detectable concentration

MDL Method Detection Limit
ML Minimum Level (Dioxin)

NC Not Calculated

ND Not detected at the reporting limit (or MDL or EDL if shown)

PQL Practical Quantitation Limit

QC Quality Control
RER Relative error ratio

RL Reporting Limit or Requested Limit (Radiochemistry)

RPD Relative Percent Difference, a measure of the relative difference between two points

TEF Toxicity Equivalent Factor (Dioxin)
TEQ Toxicity Equivalent Quotient (Dioxin)

# **Certification Summary**

Client: Clayton County Recycling

Project/Site: 110615 PM

TestAmerica Job ID: 310-69122-1

#### Laboratory: TestAmerica Cedar Falls

Unless otherwise noted, all analytes for this laboratory were covered under each certification below.

AuthorityProgramEPA Region<br/>7Certification ID<br/>007Expiration Date<br/>12-01-15 \*

The following analytes are included in this report, but certification is not offered by the governing authority:

Analysis Method Prep Method Matrix Analyte 8082A 3550B Solid PCB-1268 D92 Solid Flashpoint

#### Laboratory: TestAmerica Nashville

The certifications listed below are applicable to this report.

| Authority | Program       | <b>EPA Region</b> | Certification ID | <b>Expiration Date</b> |
|-----------|---------------|-------------------|------------------|------------------------|
| lowa      | State Program | 7                 | 131              | 04-01-16               |

TestAmerica Cedar Falls

<sup>\*</sup> Certification renewal pending - certification considered validation

# **Method Summary**

Client: Clayton County Recycling

Project/Site: 110615 PM

TestAmerica Job ID: 310-69122-1

| Method  | Method Description                                     | Protocol | Laboratory |
|---------|--|----------|------------|
| 8082A   | Polychlorinated Biphenyls (PCBs) by Gas Chromatography | SW846    | TAL CF     |
| 6010C   | Metals (ICP)   | SW846    | TAL CF     |
| 7470A   | Mercury (CVAA)   | SW846    | TAL CF     |
| 9023    | Organic Halides, Extractable (EOX)                     | SW846    | TAL NSH    |
| 9045D   | pH   | SW846    | TAL CF     |
| D240-87 | Heat of Combustion                                     | ASTM     | TAL NSH    |
| D92     | Flashpoint   | ASTM     | TAL CF     |

#### **Protocol References:**

ASTM = ASTM International

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

#### Laboratory References:

TAL CF = TestAmerica Cedar Falls, 704 Enterprise Drive, Cedar Falls, IA 50613, TEL (319)277-2401
TAL NSH = TestAmerica Nashville, 2960 Foster Creighton Drive, Nashville, TN 37204, TEL (615)726-0177





#### 310-69122 Chain of Custody

# Cooler/Sample Receipt and Temperature Log Form

| Client Information  |  |
|---|--|
| Client: Claston Co.   |  |
| City/State:   | Project:   |
| Receipt Information   |  |
| Date/Time Received: // /6/2.  | Received By:   |
| Delivery Type: 🔼 UPS 🔲 FedEx  | FedEx Ground US Mail Spee-Dee  |
| TA Courier TA Field Se  |  |
| Condition of Cooler/Containers  | MATERIAL PROPERTY OF THE PROPERTY OF THE PARTY OF THE PAR |
| Sample(s) received in Cooler? Yes   | No If yes: Cooler ID:  |
| Multiple Coolers? Yes   | No If yes: Cooler # of   |
| Cooler Custody Seals Present? Yes   | No If yes: Cooler custody seals intact? Yes No   |
| Sample Custody Seals Present? Yes   | No If yes: Sample custody seals intact? Yes -No  |
| Trip Blank Present? Yes   | -No If yes: Which VOA samples are in cooler? ↓   |
| Temperature Record  Coolant: Wet ice Blue ice  Temperature Blank? Yes No  Note: If yes, use temp blank for measurement.  Thermometer ID:                            | Dry ice Other: Z-NONE  ID & Bottle Type: 106 - 106 - 106 - 106 - 100 - 1 |
| <u> </u>  | Correction Factor (°C): +0.)   |
| Uncorrected Temp (°C): /3-8   | Corrected Temp (°C): /7.9  |
| 1) If temperature exceeds criteria, was sample a) If yes: Is there evidence that the chilling 2) If temperature is <0°C, are there obvious significant temperature. | e(s) received same day of sampling?  Yes No  |
| (e.g., bulging septa, broken/cracked bottle   | s?) Yes No   |
| NOTE: If yes, contact PM before proceeding. If no, p  | roceed with login  |
| Additional Comments   |  |
|   |  |
|   |  |
|   |  |
|   |  |

Document: CF-LG-WI-002

Revision: 21 Date: 7/28/2015

|                          |                             |             |                      |                   |                          |                       | S.                 | -             | Email Results Fax Results Send OC with report              |               | 1   |   |          | H                       | 7      |  | Time                                    | 1            |                              |
|--------------------------|-----------------------------|-------------|----------------------|-------------------|--------------------------|-----------------------|--------------------|---------------|--|---------------|-----|---|----------|-------------------------|--------|--|---|--------------|------------------------------|
|                          | 1                           |             |                      |                   |                          |                       | 5                  | 0             | TAT bisbrist   | -             | +   |   | +        | +                       | 1      |  | Date                                    | 1            | 1                            |
|                          | 2                           |             |                      |                   |                          | 3                     | Ξ                  | ١٢            | RUSH TAT (Muet call ahead!)                                | $\rightarrow$ | +   |   | -        | +                       | +      |  | å                                       |              |                              |
| (                        | 7                           |             |                      |                   |                          | 4757                  | את                 | -             | (ibaade lies tauM TAT USI)G                                |               | +   | + | +        | +                       | -      |  | -                                       | 1            |                              |
| (                        | S                           |             |                      |                   | Rous                     | .534.                 | Aceryecucling. com |               |  |               | -   |   |          |                         |        |  |   |              |                              |
|                          | 9                           |             |                      |                   | Sina                     | 563                   | 100                | Analyze For   | Hd   | K             | 7   |   |          | H                       | +      |  |   |              |                              |
| S (                      | 0                           |             |                      |                   | 21                       | 4                     | gena               | Lag.          | STU  | X             |     |   |          |                         | 7      |  | 1.4                                     |              | 1                            |
| Fax: 319 - 277 - 2425    | -                           |             | 1 8                  |                   | 9                        | 1 1                   | ×                  |               | क्रामापुर<br>इस्तापुर                                      |               | +   | + | +        | +                       | +      |  | Relinquished by:                        |              |                              |
| -                        |                             |             |                      |                   | ١,.                      | 96                    | ~                  | ľ             | True view with   | ×             |     | _ | _        | $\sqcup$                | 4      |  | she                                     | Via          |                              |
| -21                      | -1                          |             | 'ni                  | ě.                | ge                       | ep<br>P               | 100                | Ш             | tolog dsolf  | X             |     |   |          |                         |        |  | duis                                    | pac          |                              |
| <u>6</u>                 | # 8                         | *           | Project Name:        | Project Number:   | Project Manager.         | Proj. Mgr. Telephone: | Proj. Mgr. Email:  | lF            | TCB metals   | 米             | -   |   | THE S    |                         | 7      |  | elin                                    | Shipped Via: | 1                            |
| en<br>¥                  | Your PO#:<br>Invoice To:    | TA Quote #: | Z                    | z                 | ₹                        | Š.                    | Mgr.               | lŀ            | - CO 1   | ×             | +   | + | -        | ++                      | 4      |  |   | 100          | 1                            |
|                          | er 1                        | đ           | ·Ř                   | 흋                 | ģ                        | 5                     | oj. N              | Н             |  | -             | _   |   |          | 11                      |        |  | Lime                                    |              | I                            |
|                          | > E                         | F           | 4                    |                   |                          | ě,                    | ď                  |               | IIO  |               |     | 1 | tel.     | $\downarrow \downarrow$ | $\Box$ |  |   | 4            | Laboratory Comments          |
|                          |                             |             |                      | 33                |                          |                       |                    |               | lios   |               |     |   |          | $\downarrow \downarrow$ | _      |  | a                                       | 1            | E                            |
|                          |                             |             |                      | 7.3               |                          |                       |                    | Matrix        | əôpniş   |               |     |   |          | $\downarrow \downarrow$ | _      |  | Date                                    | 1            | <b> </b> <sup>2</sup>        |
|                          |                             |             |                      | 47                |                          |                       |                    | ĭ≊ ₋          | Drinking Water   | -             |     |   | $\Box$   | $\perp$                 | ة ا    | ;;   |   | _            | [ [                          |
|                          | \_                          |             |                      |                   |                          |                       |                    | L             | 1915WettseVV   |               |     |   | $\sqcup$ | $\perp \downarrow$      |        |  |   |              | 8                            |
|                          | 30                          |             | ΝV                   | 39                |                          |                       |                    | Ц             | Groundwater  | -             |     |   |          | $\perp$                 |        | 2  |   |              | <u>a</u>                     |
|                          | .4                          |             |                      | S                 |                          |                       |                    |               | Other ( Specify)   |               |     |   |          |                         |        |  |   | 1            |                              |
|                          | .7                          |             | 6                    | 6                 |                          |                       |                    | L             | None (Black & White Label)                                 |               |     |   |          | Ш                       |        |  |   |              |                              |
|                          | 7                           |             | 59                   | 9                 |                          |                       |                    | <u>8</u>      | H <sub>2</sub> SO <sub>4</sub> Gisse(Yeilow & White Label) |               | 11) |   |          | Ш                       | ╝      |  |   |              | 1                            |
|                          | 2                           |             | -                    | V                 |                          |                       | 1                  | 2             | (Social estina & wolley) steady pos                        |               |     |   |          |                         |        | Ĭ.,  | 1                                       |              | ם                            |
|                          | Kecyc                       |             | 53                   | Fax 503-539.      |                          |                       |                    | Preservative  | (leds.] etirfW & sgnero ) HOsN                             |               |     |   |          | П                       |        | 5 5  |   |              | <b>B</b> C <b>B</b>          |
| 1                        | $\sim$                      |             | (V)                  | U.                |                          |                       |                    | <u>ادِّ [</u> | HCI (Blue & White Label)                                   |               |     |   |          | П                       |        | <u> </u>   |   |              | E                            |
|                          | - 4                         |             | . 1                  |                   |                          |                       |                    |               | HNO <sub>3</sub> (Red & White Label)                       |               |     |   |          | $\Box$                  |        | 2 2 2  |   |              | 8                            |
|                          | 73                          | 10          | 7                    |                   |                          |                       |                    |               | şo   |               | (1) |   |          |                         |        | 0 4 E  | . <del>.</del>                          |              | <u>e</u>                     |
|                          | \$ 5                        | Aue         | V                    | 1                 |                          |                       |                    |               | bene/iii bleii   |               |     |   |          |                         | 1      | VCE  | pen                                     | sents:       | Temperature Upon Receipt:    |
| m                        | 300                         |             | L                    | in                | 16                       |                       |                    |               | Composite  |               |     |   |          |                         | ٦.     | <b>\$ 3 2 2</b>  | 8                                       | omo          | E                            |
| 5061                     | g                           | Echo        | L                    | 17                | NY.                      | 3                     |                    | t             | dsn0   |               |     |   |          |                         |        | at Test<br>In AD<br>I charg<br>of san  | e R                                     | 0            | Rime                         |
| Falls, LA                | Sina<br>Gina                | 3           | 9                    | 7-6               | 7                        | 2                     |                    |               | # of containers shipped                                    |               |     |   |          |                         |        | Hours<br>Hours<br>dittions   | Ē                                       |              | <b>₽</b> (\$\d               |
| Cedar Falls, IA 50613    | 4                           | 15          | honord               | .53               | Fred                     | 7                     |                    |               | Time Sampled   |               |     |   |          |                         |        | ime of r<br>AST 48<br>nts; ad  | a                                       |              | Date (                       |
|                          | Cla                         | Mode        | 7                    | S                 |                          | 14                    |                    |               | DelqmeS atsO   |               |     |   |          |                         |        | ommitme  | Da                                      |              | Pag                          |
| TOT TOTAL MEDICAL STREET | Company:<br>Send Report To: | Address:    | City/State/Zip Code: | Telephone Number: | Sampled by: (Print Name) | (Signature)           |                    |               |  |               |     |   |          |                         |        | NOTE: All turn around times are calculated from the time of receipt at TestAmerica.  NOTICE: Pre-Arrangements must be made AT LEAST 48 Hours in ADVANCE to receive results with RUSH turn around time commitments; additional charges may be assessed. | Relinquished by: Date Time Received by: | Vio.         | Received for TestAmerica by: |
| ٢                        |                             |             |                      |                   |                          |                       |                    |               | Same<br>Ol   |               |     |   |          |                         |        | NOTE: A<br>NOTICE:<br>NOTE: T  | Relinquished by:                        | Chinned Via- | Receive                      |

#### State, Zip: TN, 37204 Project Name: 110615 PM Cedar Falls, IA 50613 Phone (319) 277-2401 Fax (319) 277-2425 615-726-0177(Tel) 2960 Foster Creighton Drive, Shipping/Receiving Client Information (Sub Contract Lab) Empty Kit Relinquished by: Possible Hazard Identification 110615 PM (310-69122-1) Sample Identification - Client ID (Lab ID) Nashville TestAmerica Laboratories, Inc Deliverable Requested: I, II, III, IV, Other (specify) telinquished by delinquished by delinquished by: Custody Seals Intact: Δ Yes Δ No 615-726-3404(Fax) Custody Seal No.: Project # 31001320 WO# Phone Date/Time Date/Time TAT Requested (days): Due Date Requested: 11/27/2015 Sample Date 11/6/15 Date: Central Sample (C=comp, G=grab) Sample Preservation Code: Type BT=Tissue, A=Ai Company Company Company Matrix Solid Brown, Shali shali.brown@testamericainc.com I Ime: Field Filtered Sample (Yes or No) Special Instructions/QC Requirements Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) Return To Client Disposal By Lab Archive For Monte Perform MS/MSD (Yes or No) Cooler Temperature(s) °C and Other Remarks Received by: D240\_87\_NP/ Heat of Combustion × 9023/9023\_Prep EOX **Analysis Requested** Carrier Tracking No(s) 0 Method of Shipment Date/Time. 1-17-15 ~ **Total Number of containers** A-HCL B-NaoH C-Zn Acetate D-Nithe Asid E-NaHSOA F-MeOH G-Anchior H-Ascorbic Acid I-lee J-DI Water K-EDTA L-EDA 310-5676 1 TestAmerico Preservation Codes: 310-69122-1 Page 1 of 1 Page 10:15 Special Instructions/Note: M - Hexane N - None O - AsNaO2 P - NaZO4S Q - NaZSSO3 R - NaZSSO3 S - HZSSO3 S - HZSO04 T - TSP Dodecahydrate U - Acetone V - MCAA W - ph 4-5 Z - other (specify) Company Months 7

704 Enterprise Drive

Chain of Custody Record

TestAmerica Cedar Falls



#### **COOLER RECEIPT FORM**

Loc: 310 **69122** 

| Cooler Received/Opened On: 11/17/2015 @1015   |  |
|---|--|
| 1. Tracking # 3854 (last 4 digits, FedEx)   | 1.0  |
| Courier: Fed-Ex IR Gun ID: 14740456   |  |
| 2. Temperature of rep. sample or temp blank when opened:  |  |
| 3. If Item #2 temperature is $0^{\circ}\text{C}$ or less, was the representative sample or temp blank frozen? | YES NO. NA                                       |
| 4. Were custody seals on outside of cooler?   | YES. NO.NA                                       |
| If yes, how many and where:   |  |
| 5. Were the seals intact, signed, and dated correctly?  | YESNO (NA)                                       |
| 6. Were custody papers inside cooler?   | YES)NONA   |
| certify that I opened the cooler and answered questions 1-6 (intial)  | -  |
| 7. Were custody seals on containers:  YES and Intact  | YESNO  |
| Were these signed and dated correctly?  | YESNO.   |
| 8. Packing mat'l used? Coolewrap Plastic bag Peanuts Vermiculite Foam Insert Paper                            | Other None                                       |
| 9. Cooling process: Ce-pack Ice (direct contact) Dry ice  | Other None                                       |
| 10. Did all containers arrive in good condition (unbroken)?   | ASSNONA  |
| 11. Were all container labels complete (#, date, signed, pres., etc)?   | <b>₹₹\$</b> ?NONA                                |
| 12. Did all container labels and tags agree with custody papers?  | RESPNONA   |
| 13a. Were VOA vials received?   | YES  |
| b. Was there any observable headspace present in any VOA vial?  | YESNO  |
| 14. Was there a Trip Blank in this cooler? YESNO. NA If multiple coolers, sequence                            | ;e # <u>\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\</u> |
| certify that I unloaded the cooler and answered guestions 7-14 (Intial)                                       | E C  |
| 15a. On pres'd bottles, did pH test strips suggest preservation reached the correct pH level?                 | YESNO NA   |
| b. Did the bottle labels indicate that the correct preservatives were used                                    | ES.NONA  |
| 16. Was residual chlorine present?  | YESNO. NA  |
| I certify that I checked for chlorine and pH as per SOP and answered questions 15-16 (intial)                 | _B_  |
| 17. Were custody papers properly filled out (ink, signed, etc)?   | YES NONA   |
| 18. Did you sign the custody papers in the appropriate place?   | YES NONA   |
| 19. Were correct containers used for the analysis requested?  | ESNONA   |
| 20. Was sufficient amount of sample sent in each container?   | ES.NONA  |
| I certify that I entered this project into LIMS and answered guestions 17-20 (intial)                         | 0  |
| I certify that I attached a label with the unique LIMS number to each container (intial)                      | D.   |
| 21. Were there Non-Conformance issues at login? YES. NO Was a NCM generated? YES                              | ۩.#  |
|   | -  |

# Login Sample Receipt Checklist

Client: Clayton County Recycling

Job Number: 310-69122-1

Login Number: 69122

List Number: 1

Creator: Worthy, Ashley L

List Source: TestAmerica Cedar Falls

| Question  | Answer | Comment   |
|---|--------|---|
| Radioactivity wasn't checked or is = background as measured by a survey meter.</td <td>N/A</td> <td></td> | N/A    |   |
| The cooler's custody seal, if present, is intact.   | N/A    |   |
| Sample custody seals, if present, are intact.   | N/A    |   |
| The cooler or samples do not appear to have been compromised or tampered with.                            | True   |   |
| Samples were received on ice.   | False  | No ice per client request.                                |
| Cooler Temperature is acceptable.   | False  | Cooler temperature outside required temperature criteria. |
| Cooler Temperature is recorded.   | True   |   |
| COC is present.   | True   |   |
| COC is filled out in ink and legible.   | True   |   |
| COC is filled out with all pertinent information.   | False  | No date or time on COC or containers.                     |
| Is the Field Sampler's name present on COC?   | True   |   |
| There are no discrepancies between the containers received and the COC.                                   | True   |   |
| Samples are received within Holding Time.   | True   |   |
| Sample containers have legible labels.  | True   |   |
| Containers are not broken or leaking.   | True   |   |
| Sample collection date/times are provided.  | False  |   |
| Appropriate sample containers are used.   | True   |   |
| Sample bottles are completely filled.   | True   |   |
| Sample Preservation Verified.   | True   |   |
| There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs                          | True   |   |
| Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").                           | True   |   |
| Multiphasic samples are not present.  | True   |   |
| Samples do not require splitting or compositing.  | True   |   |
| Residual Chlorine Checked.  | N/A    |   |

# **Login Sample Receipt Checklist**

Client: Clayton County Recycling

Job Number: 310-69122-1

Login Number: 69122 List Number: 2 Creator: Ford, Easton

List Source: TestAmerica Nashville List Creation: 11/17/15 11:30 AM

| Question   | Answer | Comment |
|--|--------|---------|
| Radioactivity wasn't checked or is = background as measured by a survey meter.</td <td>True</td> <td></td> | True   |         |
| The cooler's custody seal, if present, is intact.  | True   |         |
| Sample custody seals, if present, are intact.  | True   |         |
| The cooler or samples do not appear to have been compromised or tampered with.                             | True   |         |
| Samples were received on ice.  | True   |         |
| Cooler Temperature is acceptable.  | True   |         |
| Cooler Temperature is recorded.  | True   |         |
| COC is present.  | True   |         |
| COC is filled out in ink and legible.  | True   |         |
| COC is filled out with all pertinent information.  | True   |         |
| Is the Field Sampler's name present on COC?  | True   |         |
| There are no discrepancies between the containers received and the COC.                                    | True   |         |
| Samples are received within Holding Time.  | True   |         |
| Sample containers have legible labels.   | True   |         |
| Containers are not broken or leaking.  | True   |         |
| Sample collection date/times are provided.   | True   |         |
| Appropriate sample containers are used.  | True   |         |
| Sample bottles are completely filled.  | True   |         |
| Sample Preservation Verified.  | N/A    |         |
| There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs                           | True   |         |
| Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").                            | N/A    |         |
| Multiphasic samples are not present.   | True   |         |
| Samples do not require splitting or compositing.   | True   |         |
| Residual Chlorine Checked.   | N/A    |         |



# <u>TestAmerica</u>

THE LEADER IN ENVIRONMENTAL TESTING

# **ANALYTICAL REPORT**

TestAmerica Laboratories, Inc.

TestAmerica Cedar Falls 704 Enterprise Drive Cedar Falls, IA 50613 Tel: (319)277-2401

TestAmerica Job ID: 310-69119-1 Client Project/Site: 110915 PM

For:

Clayton County Recycling 11645 Echo Avenue PO BOX 861 Monona, Iowa 52159

Attn: Gina Roys

Authorized for release by: 11/30/2015 9:01:59 AM

Shali Brown, Project Manager II (615)301-5031 shali.brown@testamericainc.com

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

# **Table of Contents**

| Cover Page            | 1  |
|-----------------------|----|
| Table of Contents     |    |
| Case Narrative        | 3  |
| Sample Summary        | 4  |
| Client Sample Results | 5  |
| Chronicle             | 6  |
| Definitions           | 7  |
| Certification Summary | 8  |
| Method Summary        | 9  |
| Chain of Custody      | 10 |
| Receipt Checklists    | 14 |

#### **Case Narrative**

Client: Clayton County Recycling

Project/Site: 110915 PM

Job ID: 310-69119-1

Laboratory: TestAmerica Cedar Falls

Narrative

Job Narrative 310-69119-1

#### Comments

No additional comments.

#### Receipt

The sample was received on 11/16/2015 8:50 AM; the sample arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 13.9° C.

#### Receipt Exceptions

The following sample was received at the laboratory outside the required temperature criteria and without a collection time listed on the chain of custody: 110915 (310-69119-1). The client was contacted regarding this issue.

#### GC Semi VOA

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

#### Metals

Method(s) 200.7 Rev 4.4, 6010C: The following sample was diluted due to the presence of an interferent: 110915 (310-69119-1). Elevated reporting limits (RLs) are provided.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

#### **General Chemistry**

Method(s) 9023: The following sample was diluted at prep due to the nature of the sample matrix: 110915 (310-69119-1). Elevated reporting limits (RLs) are provided.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

#### **Organic Prep**

Method(s) 3550B: The following sample was prepared with less sample due to the nature of the sample matrix: 110915 (310-69119-1). Elevated reporting limits (RLs) are provided.

Method(s) 1311: EPA Method 1311 requires the room temperature to be maintained at 23 +/- 2 degrees Celsius for the duration of the leaching process. For batch 109178, the temperature 19.0-21.0 was outside of this range.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

TestAmerica Job ID: 310-69119-1

# **Sample Summary**

Client: Clayton County Recycling Project/Site: 110915 PM

TestAmerica Job ID: 310-69119-1

Lab Sample ID **Client Sample ID** Matrix Collected Received 310-69119-1 110915 Solid 11/09/15 00:00 11/16/15 08:50

# **Client Sample Results**

Client: Clayton County Recycling Project/Site: 110915 PM

TestAmerica Job ID: 310-69119-1

Client Sample ID: 110915 Lab Sample ID: 310-69119-1

Date Collected: 11/09/15 00:00 Date Received: 11/16/15 08:50

Matrix: Solid

| Method: 6010C - Metals (IC | P) - TCLP    |           |         |     |           |   |                |                |         |
|----------------------------|--------------|-----------|---------|-----|-----------|---|----------------|----------------|---------|
| Analyte                    | Result       | Qualifier | RL      | MDL | Unit      | D | Prepared       | Analyzed       | Dil Fac |
| Arsenic                    | <0.600       |           | 0.600   |     | mg/L      | - | 11/19/15 11:41 | 11/24/15 15:25 | 2       |
| Barium                     | <1.00        |           | 1.00    |     | mg/L      |   | 11/19/15 11:41 | 11/24/15 15:25 | 2       |
| Cadmium                    | 0.0414       |           | 0.0400  |     | mg/L      |   | 11/19/15 11:41 | 11/24/15 15:25 | 2       |
| Chromium                   | <0.0400      |           | 0.0400  |     | mg/L      |   | 11/19/15 11:41 | 11/24/15 15:25 | 2       |
| Lead                       | <0.200       |           | 0.200   |     | mg/L      |   | 11/19/15 11:41 | 11/24/15 15:25 | 2       |
| Selenium                   | <0.300       |           | 0.300   |     | mg/L      |   | 11/19/15 11:41 | 11/24/15 15:25 | 2       |
| Silver                     | <0.0400      |           | 0.0400  |     | mg/L      |   | 11/19/15 11:41 | 11/24/15 15:25 | 2       |
| Method: 7470A - Mercury (  | CVAA) - TCLP |           |         |     |           |   |                |                |         |
| Analyte                    | Result       | Qualifier | RL      | MDL | Unit      | D | Prepared       | Analyzed       | Dil Fac |
| Mercury                    | <0.00200     |           | 0.00200 |     | mg/L      |   | 11/19/15 11:47 | 11/20/15 10:36 | 1       |
| General Chemistry          | ×            |           |         |     |           |   |                |                |         |
| Analyte                    | Result       | Qualifier | RL      | RL  | Unit      | D | Prepared       | Analyzed       | Dil Fac |
| BTU                        | 4500         |           | 200     |     | BTU/lb    |   |                | 11/27/15 12:37 | 1       |
| Flashpoint                 | >215         |           | 40.0    |     | Degrees F |   |                | 11/17/15 15:02 | 1       |
| General Chemistry - Solub  | le           |           |         |     |           |   |                |                |         |
| Analyte                    |              | Qualifier | RL      | RL  | Unit      | D | Prepared       | Analyzed       | Dil Fac |
| pH                         | 8.37         | Н         | 0.100   |     | SU        | - |                | 11/17/15 12:52 | 1       |

Client Sample ID: 110915 Lab Sample ID: 310-69119-1

Date Collected: 11/09/15 00:00 Date Received: 11/16/15 08:50

Matrix: Solid

Percent Solids: 80.1

| Analyte                       | Result    | Qualifier | RL       | MDL | Unit  | D  | Prepared       | Analyzed       | Dil Fac |
|-------------------------------|-----------|-----------|----------|-----|-------|----|----------------|----------------|---------|
| PCB-1016                      | <0.293    |           | 0.293    |     | mg/Kg | Ħ  | 11/17/15 14:19 | 11/18/15 16:42 | 1       |
| PCB-1221                      | <0.293    |           | 0.293    |     | mg/Kg | Ħ  | 11/17/15 14:19 | 11/18/15 16:42 | 1       |
| PCB-1232                      | <0.293    |           | 0.293    |     | mg/Kg | Ħ  | 11/17/15 14:19 | 11/18/15 16:42 | 1       |
| PCB-1242                      | 0.755     |           | 0.293    |     | mg/Kg | ¤  | 11/17/15 14:19 | 11/18/15 16:42 | 1       |
| PCB-1248                      | <0.293    |           | 0.293    |     | mg/Kg | ä  | 11/17/15 14:19 | 11/18/15 16:42 | 1       |
| PCB-1254                      | <0.293    |           | 0.293    |     | mg/Kg | ☆  | 11/17/15 14:19 | 11/18/15 16:42 | 1       |
| PCB-1260                      | <0.293    |           | 0.293    |     | mg/Kg | ₩  | 11/17/15 14:19 | 11/18/15 16:42 | 1       |
| PCB-1268                      | <0.293    |           | 0.293    |     | mg/Kg | ₽  | 11/17/15 14:19 | 11/18/15 16:42 | 1       |
| Surrogate                     | %Recovery | Qualifier | Limits   |     |       |    | Prepared       | Analyzed       | Dil Fac |
| DCB Decachlorobiphenyl (Surr) | 60        |           | 10-110   |     |       |    | 11/17/15 14:19 | 11/18/15 16:42 | 1       |
| Tetrachloro-m-xylene          | 50        |           | 10 - 110 |     |       |    | 11/17/15 14:19 | 11/18/15 16:42 | 1       |
| General Chemistry             |           |           |          |     |       |    |                |                |         |
| Analyte                       | Result    | Qualifier | RL       | MDL | Unit  | D  | Prepared       | Analyzed       | Dil Fac |
| Halogens, Extractable Organic | <73.7     |           | 73.7     |     | mg/Kg | ₩. | 11/19/15 14:31 | 11/23/15 10:19 | 1       |

#### **Lab Chronicle**

Client: Clayton County Recycling

Project/Site: 110915 PM

TestAmerica Job ID: 310-69119-1

Lab Sample ID: 310-69119-1

Matrix: Solid

Client Sample ID: 110915
Date Collected: 11/09/15 00:00

Date Collected: 11/09/15 00:00 Date Received: 11/16/15 08:50

| Prep Type | Batch<br>Type | Batch<br>Method | Run | Dilution<br>Factor | Batch<br>Number | Prepared<br>or Analyzed | Analyst | Lab     |
|-----------|---------------|-----------------|-----|--------------------|-----------------|-------------------------|---------|---------|
| TCLP      | Leach         | 1311            |     |                    | 109178          | 11/18/15 14:18          | EEE     | TAL CF  |
| TCLP      | Prep          | 3010A           |     |                    | 109504          | 11/19/15 11:41          | JNR     | TAL CF  |
| TCLP      | Analysis      | 6010C           |     | 2                  | 110221          | 11/24/15 15:25          | OAD     | TAL CF  |
| TCLP      | Leach         | 1311            |     |                    | 109178          | 11/18/15 14:18          | EEE     | TAL CF  |
| TCLP      | Prep          | 7470A           |     |                    | 109508          | 11/19/15 11:47          | SAD     | TAL CF  |
| TCLP      | Analysis      | 7470A           |     | 1                  | 109687          | 11/20/15 10:36          | SAD     | TAL CF  |
| Soluble   | Leach         | DI Leach        |     |                    | 108755          | 11/17/15 10:45          | SAS     | TAL CF  |
| Soluble   | Analysis      | 9045D           |     | 1                  | 109170          | 11/17/15 12:52          | SAS     | TAL CF  |
| Total/NA  | Analysis      | D240-87         |     | 1                  | 302101          | 11/27/15 12:37          | YSJ     | TAL NSH |
| Total/NA  | Analysis      | D92             |     | 1                  | 109185          | 11/17/15 15:02          | JCF     | TAL CF  |

Client Sample ID: 110915

Date Collected: 11/09/15 00:00

Date Received: 11/16/15 08:50

Lab Sample ID: 310-69119-1

Matrix: Solid Percent Solids: 80.1

|           | Batch    | Batch  |     | Dilution | Batch  | Prepared       |         |         |
|-----------|----------|--------|-----|----------|--------|----------------|---------|---------|
| Prep Type | Туре     | Method | Run | Factor   | Number | or Analyzed    | Analyst | Lab     |
| Total/NA  | Prep     | 3550B  |     |          | 108983 | 11/17/15 14:19 | EEE     | TAL CF  |
| Total/NA  | Analysis | 8082A  |     | 1        | 109330 | 11/18/15 16:42 | BKT     | TAL CF  |
| Total/NA  | Prep     | 9023   |     |          | 299155 | 11/19/15 14:31 | CLJ     | TAL NSH |
| Total/NA  | Analysis | 9023   |     | 1        | 299452 | 11/23/15 10:19 | CLJ     | TAL NSH |

#### **Laboratory References:**

TAL CF = TestAmerica Cedar Falls, 704 Enterprise Drive, Cedar Falls, IA 50613, TEL (319)277-2401
TAL NSH = TestAmerica Nashville, 2960 Foster Creighton Drive, Nashville, TN 37204, TEL (615)726-0177

# **Definitions/Glossary**

Client: Clayton County Recycling

Project/Site: 110915 PM

TestAmerica Job ID: 310-69119-1

#### **Qualifiers**

#### **General Chemistry**

Qualifier Qualifier Description

Sample was prepped or analyzed beyond the specified holding time

#### Glossary

| Abbreviation | These commonly used abbreviations may or may not be present in this report.                |
|--------------|--|
| п            | Listed under the "D" column to designate that the result is reported on a dry weight basis |
| %R           | Percent Recovery   |
| CFL          | Contains Free Liquid   |
| CNF          | Contains no Free Liquid  |
| DER          | Duplicate error ratio (normalized absolute difference)                                     |
| Dil Fac      | Dilution Factor  |

| DL, RA, RE, IN | Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample |
|----------------|---|
| DLC            | Decision level concentration  |
| MDA            | Minimum detectable activity   |
| EDL            | Estimated Detection Limit   |

EDL Estimated Detection Limit

MDC Minimum detectable concentration

MDL Method Detection Limit
ML Minimum Level (Dioxin)
NC Not Calculated

ND Not detected at the reporting limit (or MDL or EDL if shown)

PQL Practical Quantitation Limit

QC Quality Control
RER Relative error ratio

RL Reporting Limit or Requested Limit (Radiochemistry)

RPD Relative Percent Difference, a measure of the relative difference between two points

TEF Toxicity Equivalent Factor (Dioxin)
TEQ Toxicity Equivalent Quotient (Dioxin)

## **Certification Summary**

Client: Clayton County Recycling

Project/Site: 110915 PM

TestAmerica Job ID: 310-69119-1

Laboratory: TestAmerica Cedar Falls

Unless otherwise noted, all analytes for this laboratory were covered under each certification below.

AuthorityProgramEPA RegionCertification IDExpiration DateIowaState Program700712-01-15 \*

The following analytes are included in this report, but certification is not offered by the governing authority:

Analysis Method Prep Method Matrix Analyte
8082A 3550B Solid PCB-1268
D92 Solid Flashpoint

Laboratory: TestAmerica Nashville

The certifications listed below are applicable to this report.

AuthorityProgramEPA RegionCertification IDExpiration DateIowaState Program713104-01-16

TestAmerica Cedar Falls

<sup>\*</sup> Certification renewal pending - certification considered valid.

# **Method Summary**

Client: Clayton County Recycling

Project/Site: 110915 PM

TestAmerica Job ID: 310-69119-1

| Method  | Method Description                                     | Protocol | Laboratory |
|---------|--|----------|------------|
| 8082A   | Polychlorinated Biphenyls (PCBs) by Gas Chromatography | SW846    | TAL CF     |
| 6010C   | Metals (ICP)   | SW846    | TAL CF     |
| 7470A   | Mercury (CVAA)   | SW846    | TAL CF     |
| 9023    | Organic Halides, Extractable (EOX)                     | SW846    | TAL NSH    |
| 9045D   | pH   | SW846    | TAL CF     |
| D240-87 | Heat of Combustion                                     | ASTM     | TAL NSH    |
| D92     | Flashpoint   | ASTM     | TAL CF     |

#### **Protocol References:**

ASTM = ASTM International

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

#### Laboratory References:

TAL CF = TestAmerica Cedar Falls, 704 Enterprise Drive, Cedar Falls, IA 50613, TEL (319)277-2401
TAL NSH = TestAmerica Nashville, 2960 Foster Creighton Drive, Nashville, TN 37204, TEL (615)726-0177





# Cooler/Sample Receipt and Temperature Log Form

| Client Information   | ENTER THE  | (2018年1月1日) 11日本公司 (2018年1日) (2018年  |
|--|--|--|
| Client: Claston Co.  |  | The series of th |
| City/State:  |  | Project:   |
| Receipt Information  | Established Table  |  |
| Date/Time Received: // /6/2  | 850  | Received By:   |
| Delivery Type: 🔼 UPS   | FedEx [  | FedEx Ground US Mail Spee-Dee  |
| TA Courier   | TA Field Services [  | Client Drop-off  Other:  |
| Condition of Cooler/Containers   | LOWER PROPERTY.  | Little Control of the Control of the Control   |
| Sample(s) received in Cooler?  | ☐ Yes      No  | If yes: Cooler ID:   |
| Multiple Coolers?  | ☐ Yes   ☐ No   | If yes: Cooler # of  |
| Cooler Custody Seals Present?  | ☐ Yes  | If yes: Cooler custody seals intact? Yes No  |
| Sample Custody Seals Present?  | Yes -No  | If yes: Sample custody seals intact? Yes 4-No  |
| Trip Blank Present?  | Yes ANo  | If yes: Which VOA samples are in cooler? ↓   |
| Temperature Record  Coolant: Wet ice E  Temperature Blank? Yes  Note: If yes, use temp blank for me  Thermometer ID:   | Blue ice Dry ice No ID & Bo  | Other: NONE  Ottle Type: plast constant to take measurement.   |
|  |  | Correction Factor (°C): +0./   |
| Uncorrected Temp (°C):   | 13-8   | Corrected Temp (°C): /3.9  |
| 1) If temperature exceeds criter  a) If yes: Is there evidence  2) If temperature is <0°C, are the second of the | ria, was sample(s) receithat the chilling proces<br>nere obvious signs that<br>cracked bottles?)   | s began? Yes No  the integrity of sample containers is compromised? Yes No h login   |
| 40 THE STO 645 LB  | THE RESIDENCE OF THE PARTY OF T | · · · · · · · · · · · · · · · · · · ·  |
|  |  |  |
|  |  |  |
|  |  |  |
|  |  |  |

Document: CF-LG-WI-002 Revision: 21

Date: 7/28/2015

| Characteristics of the fine of result in the fine of result in the fine of result in the fine of results in the fine of result in the fine of results in the fin |  |   | LSLA                     | liny. Con |             | RUSH TAT (Must call sheed!) Standard TAT Email Results Fax Results Send OC with report |          |        |          |             |    |  | Date Time        |             |                              |
|--|--|---|--------------------------|-----------|-------------|--|----------|--------|----------|-------------|----|--|------------------|-------------|------------------------------|
| The Enterprise Diversity of Education Processes of State Project Name Labor)  The Court Falls, N. 50613  The Court Falls, N. 5061 | 7  |   | 24. 4-                   | ryecuc    |             |  |          |        |          |             | #  |  |                  |             |                              |
| Tot Enterprise Drive Codar Falls, IA 50613  Lioung Country Country Color Falls, IA 50613  Lioung Country Country Color Falls Composite At 1.LEAS Another Labor)  Preservative Composite At 1.LEAS A februs that DVANCE to recoive results of miniments, additional of samples may be assessed.  The Recoived W. The Color Composite At 1.LEAS Afforms that Total Americal George Challow & White Labor)  Preservative Composite At 1.LEAS Afforms that Total Americal George Challow & White Labor)  Preservative Composite At 1.LEAS Afforms that Total Americal George Challow & White Labor)  Preservative Composite At 1.LEAS Afforms that Total Americal George Challow & White Labor)  At 1.LEAS Afforms that Total Americal Challow & White Labor)  At 1.LEAS Aff | 915                                      |   | 5/02.5                   | d         | nalyze For: | Hd   | 1        |        |          |             | İ  |  |                  |             |                              |
| Codar Falls, N. 50613  Composite  Time Sampled  Composite  Composite  Hoo, Read & White Label)  Hoo, Read & White Label)  Hoo, Read & White Label)  Composite  Composite  Composite  Composite  Comments  Comm | $\exists    $                            | ame:<br>Imber:                            |                          | Email: QC | V           | Fingdasolf   | *        |        |          |             | İ  |  | alinquished by:  | ripped Via: |                              |
| Codar Falls, N. 50613  Month of Educ (Lind Kraus Sampled Country (Security Country Country (Security Country C | our PO a voice Tc                        | oject N                                   | oject M.<br>oi. Mar.     | oj. Mgr.  |             | क्षर्व   | Ŕ        |        |          |             |    |  |                  | S           |                              |
| Codar Falls, it 50613  Codar Falls, it 50613  Codar Falls, it 50613  Codar Falls, it 50613  From Manual Control  × = F 6                                  |   |                          | $\Box$    | _×          | lioŝ   |          |        |          |             | 10 |  | <u>ə</u>         | -           | ommen                        |
| Cedar Falls, M 50613  Cedar Falls, M 50613  Cedar Falls, M 50613  Cedar Falls, M 50613  Cedar Falls, M 50613  Fire A Four Cedar Falls, M 50613  Fire A Four Cedar Falls, M 50613  Fire A Four Cedar Falls, M 50613  Fire A Four Cedar Falls, M 50613  Fire A Four Cedar Falls, M 50613  Fire A Four Cedar Falls, M 50613  Fire A Four Cedar Falls, M 50613  Fire A Four Cedar Falls, M 50613  Fire A Four Cedar Falls, M 50613  Fire A Four Cedar Falls, M 50613  Fire A Four Cedar Falls, M 50613  Fire A Four Cedar Falls, M 50613  Fire A Four Cedar Falls, M 50613  Fire A Four Cedar Falls, M 50613  Fire A Four Cedar Falls, M 50613  Fire A Four Cedar Falls, M 50613  Fire A Four Cedar  |  | 4   |                          |           | Matr        | Drinking Water   |          |        |          | Ħ           |    | iii  | O O O            |             | atory C                      |
| Cedar Falls, IA 50613  Cedar Falls, IA 50613  For Sampled  Free A Least A Hours In A DVANcerica  Time Sample a Annie Label)  Free A Least A Hours In A DVANcerica  Time Receive as Comments:  Comments:  Open Receive Time Interesting of sample remainders.  Interesting of sample remainders.  Comments:  Open Receive Time Interesting of sample remainders.  Interesting of sample remainders.   |  | l S                                       |                          |           |             | 18thawbriuo18  |          |        |          |             |    | NOTE   |                  |             | Pode                         |
| Cedar Falls, IA 50613  Cedar Falls, IA 50613  Formula County (Cedar Miles Label)  Formula County (Red & White Label)  Formula  | 4  | 15.5                                      |                          |           | l           |  |          |        |          |             |    |  |                  |             |                              |
| Cedar Falls, IA 50613  Codar Falls, IA 50613  For Sampled  Free A Least Composite  Free A Least A Hours In A DVANCE to receive as white Label)  Free A Least A Hours In A DVANCE to receive as seesed.  Time Received by:  Comments:  Comments:  Comments:  Date  Time Received by:  Comments:   3 1 1                                    | er  |                          |           | dive        |  | $\Box$   | $\bot$ | П        | $\Box$      |    |  |                  |             |                              |
| Clay the County  | 3   7                                    |   |                          |           | 2           |  |          | +      | $\vdash$ | ++          | _  | . E  | 1                |             | 효                            |
| Clauthon Country  Sto3-539-4157  Fred Running of sampled ATLEAST 48 Hours in ADVANCE to receipt at TestAmerica disposing of sample remainder any be at TestAmerica disposing of sample remainder any be at TestAmerica disposing of sample remainder a time of receipt of time of receipt at TestAmerica disposing of sample remainder any beat of time of receipt of time of receipt at TestAmerica disposing of sample remainder time of receipt of time of receipt at TestAmerica disposing of sample remainder time of receipt of time of received by.   | , ey   i                                 | V §                                       |                          | П         |             |  | $\dashv$ | -      | ₩        | +           |    | 2 6  |                  | - 13        |                              |
| Clay the County  | $\omega_{u}$                             | η -                                       | . 10                     | ш         | -           |  |          | -      | $\vdash$ |             | -  | A 60 %   |                  |             | 8                            |
| Send Report To:  Address: \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\   | +1.                                      | 1.1                                       |                          |           |             | HNO <sub>3</sub> (Red & White Label)   |          |        | $\sqcup$ | $\bot \bot$ |    | o as de de de de de de de de de de de de de  | 1                |             | <u> </u>                     |
| Send Report To:  Address: \(\text{ILQL}\) \(\text{Send Peport To:}\)  Telephone Number: \(\text{Sold}\) \(\text{Send Peport To:}\)  Sampled by: \(\text{Print Name}\) \(\text{Send Peport To:}\)  Sampled by: \(\text{Print Name}\) \(\text{Send Peport To:}\)  (Signature) \(Send Peport       | 보건성                                      |   |                          |           |             | 801  |          |        |          |             |    | 5 4 5  | څ                |             | e Line                       |
| Send Report To: Address: 1/104/5 FCho City/State/It Code: Telephone Number: 5(03-539175) Sampled by: (Print Name) (Signature) Fred Kundle (Signature) Fred Kundle  The Company of Sampled from the time of receipt at Test/Arrangements must be made AT LEAST 48 Hours in ADVAN the RUSH turn around time commitments; additional charges may be a charge assessed for Test/Armerica disposing of sample v. Time I Temp Temp Temp Temp Temp Temp Temp Temp   | 27343                                    | IL  |                          |           |             | benefiti blet-   |          | ric    |          |             |    |  | <b>B</b>         | 25          |                              |
| Send Report To:  Campany: Claudy Send Falls, IA 506  City/State/Zip Code: Months: 5(03-539-4)  Sampled by: (Print Name) Free Report To:  (Signature) R | = 3147 F                                 |   | de                       |           | Ī           | Composite  |          |        |          |             |    | StAme<br>SVAA<br>rges  | Reco             | Comm        | Zemp                         |
| Send Report To:  Send Report To:  Address: 11(04\5 \frac{7}{5}\frac{1}{2}\frac{1}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}\frac{1}{2}1       | 89 48,                                   | 1   | 3                        | 3         |             | dmə  |          |        |          |             |    | at Tes<br>In AL<br>I chau  | 9                |             | -                            |
| Send Report To:  Address: \(\text{Total Address}\)  City/State/Zip Code: \(\text{Total Address}\)  Telephone Number: \(\text{Stgnature}\)  Telephone Number: \(\text{Stgnature}\)  Sampled by: \((\text{Print Name}\))  Sampled by: \((\t | # d.7 d.                                 | 31  | 2                        |           |             | # of containers shipped  |          |        |          |             |    | sceipt<br>Hours<br>Wone  | E                |             | Time X                       |
| Send Report To:  Address: 11(0's  Crity/State/Zip Code: 7775  Telephone Number: 5(0/3)  Telephone Number: 5(0/3)  Sampled by: (Print Name) 750  Sampled by: (Print Name) 750  Sampled by: (Print Name) 750  Sampled by: (Signature) 750  Sampled by: (Si | La La La La La La La La La La La La La L | 535                                       | Ed                       |           |             | Time Sampled   |          |        |          |             |    | MST 46 and of references disserted   | te               |             | Date<br> o   S               |
| Company: Send Report To: Address: City/State/Zip Code: Telephone Number: Sampled by: (Print Name) (Signature)  (Signature)  Arrangements must be math the company the Code: The RUSH turn around time company to a charge assessed for the Code:  The Rush turn around time company to a charge assessed for the Code:  The Rush turn around time company to a charge assessed for the Code:  The Rush turn around time code:  The Rush turn  | 911                                      |   | KH                       |           |             | bəlqma2 ətsQ   |          |        |          |             |    | I from the Ide AT LE commitme  | Da               |             | )<br> <br> -<br> -           |
| Sample ID NOTE: All tur NOTE: There Relinquished b Shipped Via: Shipped Via: Received for T  | Company: Send Report To: Address:        | Crty/State/Lip Code:<br>Telephone Number: | Sampled by: (Print Name) |           |             | Ö ek   |          |        |          |             |    | E: All turn around times are calculated ICE: Pre-Arrangements must be may with RUSH turn around time of These may he a chame assessed if | Relinquished by: | ed Via:     | Received for TestAmerica by: |

# TestAmerica Cedar Falls 704 Enterprise Drive Cedar Falls, IA 50613 Phone (319) 277-2401 Fax (319) 277-2425

,

# **Chain of Custody Record**

| -   | = | _        | = |
|-----|---|----------|---|
| - 5 |   |          | = |
|     | 7 |          | 3 |
|     |   | Ě        | ≡ |
| - 5 |   |          | ≡ |
| - 1 |   |          | Ξ |
| -   |   |          |   |
|     |   | ▔        | ≣ |
| - 5 | _ |          | ☱ |
|     | _ | =        | = |
|     |   | =        | ₽ |
| 9   |   |          |   |
|     |   | -        | 2 |
|     | = | =        | ≣ |
| Ξ   |   |          | ≣ |
| -   | ₹ | =        |   |
|     |   |          | ≣ |
|     |   | <u> </u> | = |
| -   |   |          | ≣ |
| -   |   |          | = |
| - 5 |   |          | _ |



# COOLER RECEIPT FORM

Loc: 310 **69119** 

| Cooler Received/Opened On: 11/17/2015 @1015  |                            |
|--|----------------------------|
| 1. Tracking #3854 (last 4 digits, FedEx)   | *                          |
| Courier: Fed-Ex  |                            |
| 2. Temperature of rep. sample or temp blank when opened:                               | elsius                     |
| 3. If Item #2 temperature is 0°C or less, was the representative sample or temp blank  | frozen? YES NONA           |
| 4. Were custody seals on outside of cooler?  | YES. NO.NA                 |
| If yes, how many and where:  |                            |
| 5. Were the seals intact, signed, and dated correctly?                                 | YESNO. NA                  |
| 6. Were custody papers inside cooler?  | YESNONA                    |
| I certify that I opened the cooler and answered questions 1-6 (intial)                 |                            |
| 7. Were custody seals on containers: YES and Intac                                     | et YESNO                   |
| Were these signed and dated correctly?   | YESNO                      |
| 8. Packing mat'l used?   | rt Paper Other None        |
| 9. Cooling process: Ice-pack Ice (direct contact)                                      | Dry ice Other None         |
| 10. Did all containers arrive in good condition (unbroken)?                            | ANONA                      |
| 11. Were all container labels complete (#, date, signed, pres., etc)?                  | ****NONA                   |
| 12. Did all container labels and tags agree with custody papers?                       | ESNONA                     |
| 13a. Were VOA vials received?  | YES NA                     |
| b. Was there any observable headspace present in any VOA vial?                         | YESNO                      |
| 14. Was there a Trip Blank in this cooler? YESNO. NA If multiple coolers,              | sequence #_ <del>\M_</del> |
| I certify that I unloaded the cooler and answered questions 7-14 (Intial)              | T.                         |
| 15a. On pres'd bottles, did pH test strips suggest preservation reached the correct pi | H level? YESNO(NA)         |
| b. Did the bottle labels indicate that the correct preservatives were used             | ES. NONA                   |
| 16. Was residual chlorine present?   | YESNO. NA                  |
| I certify that I checked for chlorine and pH as per SOP and answered questions 15-16   | (intial)                   |
| 17. Were custody papers properly filled out (ink, signed, etc)?                        | YES NONA                   |
| 18. Did you sign the custody papers in the appropriate place?                          | YES NONA                   |
| 19. Were correct containers used for the analysis requested?                           | ES.NONA                    |
| 20. Was sufficient amount of sample sent in each container?                            | (ÈS).NONA                  |
| certify that I entered this project into LIMS and answered questions 17-20 (intial)    | 0                          |
| certify that I attached a label with the unique LIMS number to each container (intial) | 0                          |
| 21. Were there Non-Conformance issues at login? YES. (NO) Was a NCM generated          | 7 YESNO.#                  |
|  | 2.                         |

### **Login Sample Receipt Checklist**

Client: Clayton County Recycling

Job Number: 310-69119-1

Login Number: 69119

List Number: 1

Creator: Worthy, Ashley L

List Source: TestAmerica Cedar Falls

| Question  | Answer | Comment   |
|---|--------|---|
| Radioactivity wasn't checked or is = background as measured by a survey meter.</td <td>N/A</td> <td></td> | N/A    |   |
| The cooler's custody seal, if present, is intact.   | True   |   |
| Sample custody seals, if present, are intact.   | N/A    |   |
| The cooler or samples do not appear to have been compromised or tampered with.                            | True   |   |
| Samples were received on ice.   | False  |   |
| Cooler Temperature is acceptable.   | False  | Cooler temperature outside required temperature criteria. |
| Cooler Temperature is recorded.   | True   |   |
| COC is present.   | True   |   |
| COC is filled out in ink and legible.   | True   |   |
| COC is filled out with all pertinent information.   | True   |   |
| Is the Field Sampler's name present on COC?   | True   |   |
| There are no discrepancies between the containers received and the COC.                                   | True   |   |
| Samples are received within Holding Time.   | True   |   |
| Sample containers have legible labels.  | True   |   |
| Containers are not broken or leaking.   | True   |   |
| Sample collection date/times are provided.  | True   |   |
| Appropriate sample containers are used.   | True   |   |
| Sample bottles are completely filled.   | True   |   |
| Sample Preservation Verified.   | True   |   |
| There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs                          | True   |   |
| Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").                           | True   |   |
| Multiphasic samples are not present.  | True   |   |
| Samples do not require splitting or compositing.  | True   |   |
| Residual Chlorine Checked.  | N/A    |   |

# **Login Sample Receipt Checklist**

Client: Clayton County Recycling

Job Number: 310-69119-1

List Source: TestAmerica Nashville List Creation: 11/17/15 11:30 AM

| Login Number: 69119   |
|-----------------------|
| List Number: 2        |
| Creator: Ford, Easton |

| Question   | Answer | Comment |  |
|--|--------|---------|--|
| Radioactivity wasn't checked or is = background as measured by a survey meter.</td <td>True</td> <td></td> <td></td> | True   |         |  |
| The cooler's custody seal, if present, is intact.  | True   |         |  |
| Sample custody seals, if present, are intact.  | True   |         |  |
| The cooler or samples do not appear to have been compromised or tampered with.                                       | True   |         |  |
| Samples were received on ice.  | True   |         |  |
| Cooler Temperature is acceptable.  | True   |         |  |
| Cooler Temperature is recorded.  | True   |         |  |
| COC is present.  | True   |         |  |
| COC is filled out in ink and legible.  | True   |         |  |
| COC is filled out with all pertinent information.  | True   |         |  |
| Is the Field Sampler's name present on COC?  | True   |         |  |
| There are no discrepancies between the containers received and the COC.  | True   |         |  |
| Samples are received within Holding Time.  | True   |         |  |
| Sample containers have legible labels.   | True   |         |  |
| Containers are not broken or leaking.  | True   |         |  |
| Sample collection date/times are provided.   | True   |         |  |
| Appropriate sample containers are used.  | True   |         |  |
| Sample bottles are completely filled.  | True   |         |  |
| Sample Preservation Verified.  | N/A    |         |  |
| There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs                                     | True   |         |  |
| Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").                                      | N/A    |         |  |
| Multiphasic samples are not present.   | True   |         |  |
| Samples do not require splitting or compositing.   | True   |         |  |
| Residual Chlorine Checked.   | N/A    |         |  |



# <u>TestAmerica</u>

THE LEADER IN ENVIRONMENTAL TESTING

# **ANALYTICAL REPORT**

TestAmerica Laboratories, Inc.

TestAmerica Cedar Falls 704 Enterprise Drive Cedar Falls, IA 50613 Tel: (319)277-2401

TestAmerica Job ID: 310-69121-1 Client Project/Site: 110915 AM

For:

Clayton County Recycling 11645 Echo Avenue PO BOX 861 Monona, Iowa 52159

Attn: Gina Roys

Authorized for release by: 11/30/2015 9:02:19 AM

Shali Brown, Project Manager II (615)301-5031 shali.brown@testamericainc.com

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Client: Clayton County Recycling Project/Site: 110915 AM

# **Table of Contents**

| Cover Page            | 1  |
|-----------------------|----|
| Table of Contents     |    |
| Case Narrative        | 3  |
| Sample Summary        | 4  |
| Client Sample Results | 5  |
| Chronicle             | 6  |
| Definitions           | 7  |
| Certification Summary | 8  |
| Method Summary        | 9  |
| Chain of Custody      | 10 |
| Receipt Checklists    | 14 |

#### **Case Narrative**

Client: Clayton County Recycling

Project/Site: 110915 AM

Job ID: 310-69121-1

Laboratory: TestAmerica Cedar Falls

Narrative

Job Narrative 310-69121-1

#### Comments

No additional comments.

#### Receipt

The sample was received on 11/16/2015 8:50 AM; the sample arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 13.9° C.

#### **Receipt Exceptions**

The following sample was received at the laboratory outside the required temperature criteria and without a collection time listed on the chain of custody: 110915 AM (310-69121-1). The client was contacted regarding this issue.

#### GC Semi VOA

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

#### Metals

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

#### **General Chemistry**

Method(s) 9023: The following sample was diluted at prep due to the nature of the sample matrix: 110915 AM (310-69121-1). Elevated reporting limits (RLs) are provided.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

#### **Organic Prep**

Method(s) 3550B: The following sample was prepared with less sample due to the nature of the sample matrix: 110915 AM (310-69121-1). Elevated reporting limits (RLs) are provided.

Method(s) 1311: EPA Method 1311 requires the room temperature to be maintained at 23 +/- 2 degrees Celsius for the duration of the leaching process. For batch 109178, the temperature 19.0-21.0 was outside of this range.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

TestAmerica Job ID: 310-69121-1

# **Sample Summary**

Client: Clayton County Recycling Project/Site: 110915 AM

TestAmerica Job ID: 310-69121-1

1000

Lab Sample ID Client Sample ID Matrix Collected Received 310-69121-1 110915 AM Solid 11/09/15 00:00 11/16/15 08:50

TestAmerica Cedar Falls

# **Client Sample Results**

Client: Clayton County Recycling

Project/Site: 110915 AM

TestAmerica Job ID: 310-69121-1

Client Sample ID: 110915 AM

Date Collected: 11/09/15 00:00 Date Received: 11/16/15 08:50 Lab Sample ID: 310-69121-1

Matrix: Solid

| Method: 6010C - Metals (ICP | •           |           |         |     |           |   |                |                |         |
|-----------------------------|-------------|-----------|---------|-----|-----------|---|----------------|----------------|---------|
| Analyte                     |             | Qualifier | RL      | MDL | Unit      | D | Prepared       | Analyzed       | Dil Fac |
| Arsenic                     | < 0.300     |           | 0.300   |     | mg/L      |   | 11/19/15 11:41 | 11/20/15 01:05 | 1       |
| Barium                      | < 0.500     |           | 0.500   |     | mg/L      |   | 11/19/15 11:41 | 11/20/15 01:05 | 1       |
| Cadmium                     | 0.0248      |           | 0.0200  |     | mg/L      |   | 11/19/15 11:41 | 11/20/15 01:05 | 1       |
| Chromium                    | 0.0583      |           | 0.0200  |     | mg/L      |   | 11/19/15 11:41 | 11/20/15 01:05 | 1       |
| Lead                        | 0.164       |           | 0.100   |     | mg/L      |   | 11/19/15 11:41 | 11/20/15 01:05 | 1       |
| Selenium                    | <0.150      |           | 0.150   |     | mg/L      |   | 11/19/15 11:41 | 11/20/15 01:05 | 1       |
| Silver                      | <0.0200     |           | 0.0200  |     | mg/L      |   | 11/19/15 11:41 | 11/20/15 01:05 | 1       |
| Method: 7470A - Mercury (C  | VAA) - TCLP |           |         |     |           |   |                |                |         |
| Analyte                     | •           | Qualifier | RL      | MDL | Unit      | D | Prepared       | Analyzed       | Dil Fac |
| Mercury                     | <0.00200    |           | 0.00200 |     | mg/L      |   | 11/19/15 11:47 | 11/20/15 10:37 | 1       |
| General Chemistry           |             |           |         |     |           |   |                |                |         |
| Analyte                     | Result      | Qualifier | RL      | RL  | Unit      | D | Prepared       | Analyzed       | Dil Fac |
| ВТИ                         | 3970        |           | 200     |     | BTU/lb    | - |                | 11/27/15 13:34 | 1       |
| Flashpoint                  | >215        |           | 40.0    |     | Degrees F |   |                | 11/17/15 15:02 | 1       |
| General Chemistry - Soluble |             |           |         |     |           |   |                |                |         |
| Analyte                     |             | Qualifier | RL      | RL  | Unit      | D | Prepared       | Analyzed       | Dil Fac |
| pH                          | 8.32        | Ц         | 0,100   |     | SU        | _ |                | 11/17/15 13:02 | - 1     |

Client Sample ID: 110915 AM

Date Collected: 11/09/15 00:00 Date Received: 11/16/15 08:50 Lab Sample ID: 310-69121-1

Matrix: Solid Percent Solids: 79.4

| Method: 8082A - Polychloria<br>Analyte |           | Qualifier | RL     | MDL |       | D | Prepared       | Analyzed       | Dil Fac |
|--|-----------|-----------|--------|-----|-------|---|----------------|----------------|---------|
| PCB-1016                               | <0.310    |           | 0.310  |     | mg/Kg | ¤ | 11/17/15 14:19 | 11/18/15 16:53 | 1       |
| PCB-1221                               | <0.310    |           | 0.310  |     | mg/Kg | ₩ | 11/17/15 14:19 | 11/18/15 16:53 | 8       |
| PCB-1232                               | <0.310    |           | 0.310  |     | mg/Kg | ₩ | 11/17/15 14:19 | 11/18/15 16:53 | Ħ       |
| PCB-1242                               | 0.817     |           | 0.310  |     | mg/Kg | ₿ | 11/17/15 14:19 | 11/18/15 16:53 | à       |
| PCB-1248                               | <0.310    |           | 0.310  |     | mg/Kg | ₽ | 11/17/15 14:19 | 11/18/15 16:53 | ñ       |
| PCB-1254                               | <0.310    |           | 0.310  |     | mg/Kg | ₩ | 11/17/15 14:19 | 11/18/15 16:53 | ł       |
| PCB-1260                               | <0.310    |           | 0.310  |     | mg/Kg | ¤ | 11/17/15 14:19 | 11/18/15 16:53 | 1       |
| PCB-1268                               | <0.310    |           | 0.310  |     | mg/Kg | ₩ | 11/17/15 14:19 | 11/18/15 16:53 | 1       |
| Surrogate                              | %Recovery | Qualifier | Limits |     |       |   | Prepared       | Analyzed       | Dil Fac |
| DCB Decachlorobiphenyl (Surr)          | 59        | 1,8       | 10-110 |     | 1     |   | 11/17/15 14:19 | 11/18/15 16:53 | 1       |
| Tetrachloro-m-xylene                   | 44        |           | 10-110 |     |       |   | 11/17/15 14:19 | 11/18/15 16:53 | 3       |
| General Chemistry                      |           |           |        |     |       |   |                |                |         |
| Analyte                                | Result    | Qualifier | RL     | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
| Halogens, Extractable Organic          | <91.5     |           | 91.5   |     | mg/Kg | 垃 | 11/19/15 14:31 | 11/23/15 10:19 | 1       |

#### Lab Chronicle

Client: Clayton County Recycling

Project/Site: 110915 AM

TestAmerica Job ID: 310-69121-1

Lab Sample ID: 310-69121-1

Matrix: Solid

#### Client Sample ID: 110915 AM

Date Collected: 11/09/15 00:00 Date Received: 11/16/15 08:50

| Prep Type | Batch<br>Type | Batch<br>Method | Run | Dilution<br>Factor | Batch<br>Number | Prepared<br>or Analyzed | Analyst | Lab     |
|-----------|---------------|-----------------|-----|--------------------|-----------------|-------------------------|---------|---------|
| TCLP      | Leach         | 1311            |     |                    | 109178          | 11/18/15 14:18          | EEE     | TAL CF  |
| TCLP      | Prep          | 3010A           |     |                    | 109504          | 11/19/15 11:41          | JNR     | TAL CF  |
| TCLP      | Analysis      | 6010C           |     | 1                  | 109645          | 11/20/15 01:05          | OAD     | TAL CF  |
| TCLP      | Leach         | 1311            |     |                    | 109178          | 11/18/15 14:18          | EEE     | TAL CF  |
| TCLP      | Prep          | 7470A           |     |                    | 109508          | 11/19/15 11:47          | SAD     | TAL CF  |
| TCLP      | Analysis      | 7470A           |     | 1                  | 109687          | 11/20/15 10:37          | SAD     | TAL CF  |
| Soluble   | Leach         | DI Leach        |     |                    | 108755          | 11/17/15 10:45          | SAS     | TAL CF  |
| Soluble   | Analysis      | 9045D           |     | 1                  | 109170          | 11/17/15 13:02          | SAS     | TAL CF  |
| Total/NA  | Analysis      | D240-87         |     | 1                  | 302101          | 11/27/15 13:34          | YSJ     | TAL NSH |
| Total/NA  | Analysis      | D92             |     | 1                  | 109185          | 11/17/15 15:02          | JCF     | TAL CF  |

Client Sample ID: 110915 AM

Date Collected: 11/09/15 00:00 Date Received: 11/16/15 08:50 Lab Sample ID: 310-69121-1

Matrix: Solid Percent Solids: 79.4

|           | Batch    | Batch  |     | Dilution | Batch  | Prepared       |         |         |
|-----------|----------|--------|-----|----------|--------|----------------|---------|---------|
| Prep Type | Type     | Method | Run | Factor   | Number | or Analyzed    | Analyst | Lab     |
| Total/NA  | Prep     | 3550B  |     |          | 108983 | 11/17/15 14:19 | EEE     | TAL CF  |
| Total/NA  | Analysis | 8082A  |     | 1        | 109330 | 11/18/15 16:53 | BKT     | TAL CF  |
| Total/NA  | Prep     | 9023   |     |          | 299155 | 11/19/15 14:31 | CLJ     | TAL NSH |
| Total/NA  | Analysis | 9023   |     | 1        | 299452 | 11/23/15 10:19 | CLJ     | TAL NSH |

#### Laboratory References:

TAL CF = TestAmerica Cedar Falls, 704 Enterprise Drive, Cedar Falls, IA 50613, TEL (319)277-2401
TAL NSH = TestAmerica Nashville, 2960 Foster Creighton Drive, Nashville, TN 37204, TEL (615)726-0177

#### **Definitions/Glossary**

Client: Clayton County Recycling

Project/Site: 110915 AM

TestAmerica Job ID: 310-69121-1

#### Qualifiers

#### **General Chemistry**

H Sample was prepped or analyzed beyond the specified holding time

#### **Glossary**

Abbreviation These commonly used abbreviations may or may not be present in this report.

Listed under the "D" column to designate that the result is reported on a dry weight basis

%R Percent Recovery
CFL Contains Free Liquid
CNF Contains no Free Liquid

DER Duplicate error ratio (normalized absolute difference)

Dil Fac Dilution Factor

DL, RA, RE, IN Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample

DLC Decision level concentration
MDA Minimum detectable activity
EDL Estimated Detection Limit
MDC Minimum detectable concentration

MDC Minimum detectable concentration

MDL Method Detection Limit
ML Minimum Level (Dioxin)

NC Not Calculated

ND Not detected at the reporting limit (or MDL or EDL if shown)

PQL Practical Quantitation Limit

QC Quality Control
RER Relative error ratio

RL Reporting Limit or Requested Limit (Radiochemistry)

RPD Relative Percent Difference, a measure of the relative difference between two points

TEF Toxicity Equivalent Factor (Dioxin)
TEQ Toxicity Equivalent Quotient (Dioxin)

#### **Certification Summary**

Client: Clayton County Recycling

Project/Site: 110915 AM

TestAmerica Job ID: 310-69121-1

#### Laboratory: TestAmerica Cedar Falls

Unless otherwise noted, all analytes for this laboratory were covered under each certification below.

| uthority                 | Program                     |                          | EPA Region            | Certification ID    | Expiration Dat |  |  |  |
|--------------------------|-----------------------------|--------------------------|-----------------------|---------------------|----------------|--|--|--|
| owa                      | State Prog                  | gram                     | 7                     | 007                 | 12-01-15 *     |  |  |  |
| The following analytes   | s are included in this repo | rt, but certification is | not offered by the go | overning authority: |                |  |  |  |
|                          | •                           |                          |                       |                     |                |  |  |  |
| Analysis Method          | Prep Method                 | Matrix                   | Analyt                | ie ,                |                |  |  |  |
| Analysis Method<br>8082A | Prep Method<br>3550B        | Matrix<br>Solid          | Analyt<br>PCB-1       |                     |                |  |  |  |

#### Laboratory: TestAmerica Nashville

The certifications listed below are applicable to this report.

| Authority | Program       | <b>EPA Region</b> | Certification ID | <b>Expiration Date</b> |
|-----------|---------------|-------------------|------------------|------------------------|
| lowa      | State Program | 7                 | 131              | 04-01-16               |

TestAmerica Cedar Falls

<sup>\*</sup> Certification renewal pending - certification considered valid.

#### **Method Summary**

Client: Clayton County Recycling

Project/Site: 110915 AM

TestAmerica Job ID: 310-69121-1

| Method  | Method Description                                     | Protocol | Laboratory |
|---------|--|----------|------------|
| 8082A   | Polychlorinated Biphenyls (PCBs) by Gas Chromatography | SW846    | TAL CF     |
| 6010C   | Metals (ICP)   | SW846    | TAL CF     |
| 7470A   | Mercury (CVAA)   | SW846    | TAL CF     |
| 9023    | Organic Halides, Extractable (EOX)                     | SW846    | TAL NSH    |
| 9045D   | pH   | SW846    | TAL CF     |
| D240-87 | Heat of Combustion                                     | ASTM     | TAL NSH    |
| D92     | Flashpoint   | ASTM     | TAL CF     |

#### **Protocol References:**

ASTM = ASTM International

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

#### **Laboratory References:**

TAL CF = TestAmerica Cedar Falls, 704 Enterprise Drive, Cedar Falls, IA 50613, TEL (319)277-2401
TAL NSH = TestAmerica Nashville, 2960 Foster Creighton Drive, Nashville, TN 37204, TEL (615)726-0177





#### Cooler/Sample Receipt and Temperature Log Form

| Client Information   | 法 原理 拉默                                       | CONTROL OF THE STATE OF THE STA |
|--|---|--|
| Client: Claston Co.  |   | **************************************   |
| City/State:  |   | Project:   |
| Receipt Information  | 马特的流行创办的                                      |  |
| Date/Time Received: // /6/2  | 850   | Received By:   |
| Delivery Type: 🖸 UPS   | FedEx [                                       | FedEx Ground US Mail Spee-Dee  |
| ☐ TA Courier   | TA Field Services [                           | Client Drop-off Other:   |
| Condition of Cooler/Containers   | Charles Frederic                              | LARBORAL PROPERTY OF SERVICE   |
| Sample(s) received in Cooler?  | ☐ Yes      No                                 | If yes: Cooler ID:   |
| Multiple Coolers?  | Yes No  | If yes: Cooler # of  |
| Cooler Custody Seals Present?  | ☐ Yes <a> ☐ No</a>                            | If yes: Cooler custody seals intact? Yes Ano   |
| Sample Custody Seals Present?  | ☐ Yes ☐ No                                    | If yes: Sample custody seals intact? Yes -No   |
| Trip Blank Present?  | Yes A-No                                      | If yes: Which VOA samples are in cooler? ↓   |
|  |   |  |
|  |   |  |
| Temperature Record   |   | SECTION OF THE PROPERTY AND A SECTIO |
|  | Blue ice Dry ice                              | Other: NONE  |
| Temperature Blank? Yes   | □ No ID & Bo                                  | ottle Type: plast c bag - 1106 25 Pm   |
| NOTE: If yes, use temp blank for m   | easurement. If no, sp                         | ecify sample ID(s) and bottle type used to take measurement.   |
| Thermometer ID:  | 6   | Correction Factor (°C): +0./   |
| Uncorrected Temp (°C):   | 13-8  | Corrected Temp (°C): /3.9  |
| Exceptions Noted   | 第二年 主教会是影響                                    |  |
| 1) If temperature exceeds crite a) If yes: Is there evidence                           |   |  |
|  |   | 5  |
| <ol> <li>If temperature is &lt;0°C, are t<br/>(e.g., bulging septa, broken/</li> </ol> | here obvious signs that<br>'cracked bottles?) | the integrity of sample containers is compromised?  Yes No   |
| Note: If yes, contact PM before pr   | oceeding. If no, proceed wit                  | h login  |
| Additional Comments  |   |  |
|  |   |  |
|  |   |  |
|  |   |  |
|  |   |  |

| Cedar Falls Division 704 Enterprise Drive Cedar Falls, IA 50613 U try Count                               | Moys Echo Aux             | 47          | and Kulu                         |                     |                     | Time Sampled # of containers shipped Grab Composite  |  | NOTE: All turn around times are calculated from the time of receipt at TestAmerica.  NOTICE: Pre-Arrangements must be made AT LEAST 48 Hours in ADVANCE to receive results with RUSH turn around time commitments; additional charges may be assessed. | Relinquished by: Date Time Received by: |  | Date Temperatu                                 |
|---|---------------------------|-------------|----------------------------------|---------------------|---------------------|--|--|--|---|--|--|
| thy Recycling   | 10cl                      | x03-539- 47 |                                  |                     | Preservative Matrix | ICS  Olinking Weter  HOO <sub>3</sub> (Red & White Label)  H2Cl (Blue & White Label)  H2SO <sub>4</sub> Plastic (Yellow & White Label)  H2SO <sub>4</sub> Plastic (Yellow & White Label)  H2SO <sub>4</sub> Plastic (Yellow & White Label)  H2SO <sub>4</sub> Plastic (Yellow & White Label)  H2SO <sub>4</sub> Plastic (Yellow & White Label)  H2SO <sub>4</sub> Plastic (Yellow & White Label)  H2SO <sub>4</sub> Plastic (Yellow & White Label) |  | ica. NOTES: Eto receive results say be assessed.   | od by:                                  | - Period of the control of the contr | Temperature Upon Receipt: Laboratory Comments: |
| Fac: 319 - 2/7 - 2401 of 1 - 800 - 750 - 2401 Fac: 319 - 277 - 2425 Your PO #:     DQP   S AM Invaios To: | TA Quote #: Project Name: |             | Project Manager: (502.534 - 4757 | Proj. Mgr. Email: Q | Analyze For         | SUSH TAT (Muet cell ahead!)  Standard TAT (Muet cell ahead!)  Standard TAT (Muet cell ahead!)  Fax Results  Fax Results  |  |  | ite Time Relinquished by: Date          | Shipped Via:   |  |

## TestAmerica Cedar Falls

704 Enterprise Drive Cedar Falls, IA 50613 Phone (319) 277-2401 Fax (319) 277-2425

# **Chain of Custody Record**

|   | <b>.</b> |
|---|----------|
|   |          |
|   |          |
| = |          |
|   |          |
|   |          |

| Custody Seal No.: Δ Yes Δ No                | Relinquished by: | Reimquished by:              | Empty Kit Relinquished by: | penyerable Neduceren 1, 11, 111, 14, Other (specialy) | Unconfirmed      | Possible Hazard Identification                                   |  |   |  |  | 110915 AM (310-69121-1) |                              | Sample Identification - Client ID (Lab ID)                        | Site:           | Project Name:<br>110915 AM | Email:                  | Phone:<br>615-726-0177(Tel) 615-726-3404(Fax) | State, Zip:<br>TN, 37204                  | City:<br>Nashville                       | Address: 2960 Foster Creighton Drive, | Company:<br>TestAmerica Laboratories, Inc | Client Contact:<br>Shipping/Receiving | Client Information (Sub Contract Lab) |
|---|------------------|------------------------------|----------------------------|---|------------------|--|--|---|--|--|-------------------------|------------------------------|---|-----------------|----------------------------|-------------------------|---|---|--|---------------------------------------|---|---------------------------------------|---------------------------------------|
|   | Date/Time:       | Date/Time                    |                            |   |                  |  |  |   |  |  | 11/9/15                 | X                            | Sample Date   | SSOW#           | Project #<br>31001320      | WO#                     | PO #  |   | TAT Requested (days):                    | Due Date Requested:<br>11/27/2015     |   | Phone                                 | Sampler                               |
|   |                  | 9                            | Date:                      |   |                  |  |  |   |  |  | Central                 | X                            | Sample<br>Time  |                 |                            |                         |   |   | ays):                                    | æd:                                   |   |                                       |                                       |
|   |                  | 77                           |                            |   |                  |  |  |   |  |  |                         | Preserva                     | Sample<br>Type<br>(C=comp,<br>G=grab)                             |                 |                            |                         |   |   |  |                                       |   |                                       |                                       |
|   | Company          | Company                      |                            |   |                  |  |  |   |  |  | Solid                   | Preservation Code:           | Matrix (W-water, S=solid, O=wastaioli, BT=Tissue, A=Air           |                 |                            |                         |   |   |  |                                       |   | shali.                                | Lab<br>Bro                            |
| Cooler Temperature(s) °C and Other Remarks. | Received by      | Received by:                 | Time:                      | Special Instructions/QC Requirements:                 | Return To Client | Sample Disposal ( A fee may be a                                 |  |   |  |  | ×                       |                              | Field Filtered<br>Refform MS/A<br>D240_87_NP/ H<br>9023/9023_Prej | eat of          | es or                      | No)                     |   |   | 15 15 15 15 15 15 15 15 15 15 15 15 15 1 | 1.49                                  | Analysis Rec                              | E-Mail. brown@testamericainc.com      | Lab PM<br>Brown, Shali                |
| emarks:                                     |                  | 0                            | Method                     | नाइ:  | Disposal By Lab  | ssessed if :   |  |   |  |  |                         |                              |   |                 |                            |                         |   |   | -  |                                       | Requested                                 |                                       | Carner Tracking No(s)                 |
|   | Date/Time:       | 11-17-15 10:15<br>Date/Time: | Method of Shipment         |   | Lab Archive For  | fee may be assessed if samples are retained longer than 1 month) |  |   |  |  |                         |                              | Total Number  | of co<br>Other: |                            | J - DI Water            | ō.  | D - Nitric Acid<br>E - NaHSO4<br>F - MeOH |  | 8                                     | Job#<br>310-69121-1                       | Page 1 of 1                           | 1g No(s) COC No<br>310-5676.1         |
|   | Company          | Company                      |                            |   | Months           | month)   |  | X |  |  |                         | $\left\langle \right\rangle$ | Special Instructions/Note:  |                 | Z - other (specify)        | U - Acetone<br>V - MCAA | S - H2SO4<br>T - TSP Dodecahydrate            | P - Na2O4S<br>Q - Na2SO3<br>R - Na2S2SO3  | N - None<br>O - AsNaO2                   | des:                                  |   |                                       |                                       |



#### **COOLER RECEIPT FORM**

Loc: 310 **69121** 

| Cooler Received/Opened On: 11/17/2015 @1015  |                               | _           |
|--|-------------------------------|-------------|
| 1. Tracking #3854 (last 4 digits, FedEx)   |                               |             |
| Courier: Fed-Ex IR Gun ID: 14740456  | 2 -                           |             |
| 2. Temperature of rep. sample or temp blank when opened:   | Degrees Celsius               |             |
| 3. If Item #2 temperature is 0°C or less, was the representative s   | ample or temp blank frozen?   | YES NONA    |
| 4. Were custody seals on outside of cooler?  | <u>.</u>                      | YES. NO.NA  |
| If yes, how many and where:  | <u> </u>                      |             |
| 5. Were the seals intact, signed, and dated correctly?   |                               | YESNO.(NA   |
| 6. Were custody papers inside cooler?  |                               | YES NONA    |
| I certify that I opened the cooler and answered questions 1-6 (int   | ial)                          |             |
| 7. Were custody seals on containers: YES   | and Intact                    | YESNOKAP    |
| Were these signed and dated correctly?   |                               | YESNO       |
| 8. Packing mat'l used?    **Dolewrap** Plastic bag    **Peanuts Verification**  **Peanute** Plastic bag    **Peanute** Plastic ba | miculite Foam Insert Paper    | Other None  |
| 9. Cooling process: Ce Ice-pack  | Ice (direct contact) Dry ice  | Other None  |
| 10. Did all containers arrive in good condition (unbroken)?  |                               | AESNONA     |
| 11. Were all container labels complete (#, date, signed, pres., etc  | :)?                           | NONA        |
| 12. Did all container labels and tags agree with custody papers?   | )                             | ESNONA      |
| 13a. Were VOA vials received?  |                               | YES         |
| b. Was there any observable headspace present in any VOA v   | ial?                          | YESNO       |
| 14. Was there a Trip Blank in this cooler? YESNO. (NA)   | If multiple coolers, sequence | # <u> M</u> |
| I certify that I unloaded the cooler and answered guestions 7-14   | (Intial)                      | OF.         |
| 15a. On pres'd bottles, did pH test strips suggest preservation r  | eached the correct pH level?  | YESNO NA    |
| b. Did the bottle labels indicate that the correct preservatives   | were used                     | ES NONA     |
| 16. Was residual chlorine present?   |                               | YESNO.NA    |
| I certify that I checked for chlorine and pH as per SOP and answer   | ered questions 15-16 (Intial) |             |
| 17. Were custody papers properly filled out (ink, signed, etc)?  |                               | YESNONA     |
| 18. Did you sign the custody papers in the appropriate place?  |                               | YES NONA    |
| 19. Were correct containers used for the analysis requested?   |                               | ESNONA      |
| 20. Was sufficient amount of sample sent in each container?  |                               | ÈS.NONA     |
| I certify that I entered this project into LIMS and answered questi  | ions 17-20 (intial)           | 0           |
| I certify that I attached a label with the unique LIMS number to ea  | ach container (intial)        | ₽_          |
| 21. Were there Non-Conformance issues at login? YES. (NO W   | /as a NCM generated? YES      | <b>.</b> #  |

#### **Login Sample Receipt Checklist**

Client: Clayton County Recycling

Job Number: 310-69121-1

Login Number: 69121

List Number: 1

Creator: Worthy, Ashley L

List Source: TestAmerica Cedar Falls

| Question  | Answer | Comment   |
|---|--------|---|
| Radioactivity wasn't checked or is = background as measured by a survey meter.</td <td>N/A</td> <td></td> | N/A    |   |
| The cooler's custody seal, if present, is intact.   | N/A    |   |
| Sample custody seals, if present, are intact.   | N/A    |   |
| The cooler or samples do not appear to have been compromised or tampered with.                            | True   |   |
| Samples were received on ice.   | False  | No ice per client request.                                |
| Cooler Temperature is acceptable.   | False  | Cooler temperature outside required temperature criteria. |
| Cooler Temperature is recorded.   | True   |   |
| COC is present.   | True   |   |
| COC is filled out in ink and legible.   | True   |   |
| COC is filled out with all pertinent information.   | False  | No sample ID, Date, or Time                               |
| Is the Field Sampler's name present on COC?   | True   |   |
| There are no discrepancies between the containers received and the COC.                                   | True   |   |
| Samples are received within Holding Time.   | True   |   |
| Sample containers have legible labels.  | True   |   |
| Containers are not broken or leaking.   | True   |   |
| Sample collection date/times are provided.  | False  |   |
| Appropriate sample containers are used.   | True   |   |
| Sample bottles are completely filled.   | True   |   |
| Sample Preservation Verified.   | True   |   |
| There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs                          | True   |   |
| Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").                           | True   |   |
| Multiphasic samples are not present.  | True   |   |
| Samples do not require splitting or compositing.  | True   |   |
| Residual Chlorine Checked.  | N/A    |   |

#### **Login Sample Receipt Checklist**

Client: Clayton County Recycling

Job Number: 310-69121-1

List Source: TestAmerica Nashville

Login Number: 69121 List Number: 2

List Creation: 11/17/15 11:30 AM Creator: Ford, Easton

| Question   | Answer | Comment |
|--|--------|---------|
| Radioactivity wasn't checked or is = background as measured by a survey meter.</td <td>True</td> <td></td> | True   |         |
| The cooler's custody seal, if present, is intact.  | True   |         |
| Sample custody seals, if present, are intact.  | True   |         |
| The cooler or samples do not appear to have been compromised or tampered with.                             | True   |         |
| Samples were received on ice.  | True   |         |
| Cooler Temperature is acceptable.  | True   |         |
| Cooler Temperature is recorded.  | True   |         |
| COC is present.  | True   |         |
| COC is filled out in ink and legible.  | True   |         |
| COC is filled out with all pertinent information.  | True   |         |
| s the Field Sampler's name present on COC?   | True   |         |
| There are no discrepancies between the containers received and the COC.                                    | True   |         |
| Samples are received within Holding Time.  | True   |         |
| Sample containers have legible labels.   | True   | **      |
| Containers are not broken or leaking.  | True   |         |
| Sample collection date/times are provided.   | True   |         |
| Appropriate sample containers are used.  | True   |         |
| Sample bottles are completely filled.  | True   |         |
| Sample Preservation Verified.  | N/A    |         |
| There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs                           | True   |         |
| Containers requiring zero headspace have no headspace or bubble is 6mm (1/4").                             | N/A    |         |
| Multiphasic samples are not present.   | True   |         |
| Samples do not require splitting or compositing.   | True   |         |
| Residual Chlorine Checked.   | N/A    |         |



March 7, 2016

Clayton County Recycling 11645 Echo Avenue Monona, IA 52129-0607

Attn: Ms. G

Ms. Gina Roys, Controller

Re:

Special Waste Approval Letter

Dear Ms. Roys:

We are pleased to advise that the special waste listed below was recertified on 02/29/16 for disposal at the Glacier Ridge Landfill. The attached profile is your documentation that verifies this waste stream is not a hazardous or unauthorized waste and also verifies approval to accept this waste stream by the Glacier Ridge Landfill as indicated by the signature of our approvals department and our general manager. The waste approval is valid as follows:

Generator:

Clayton County Recycling

Address of Waste Generated:

11645 Echo Avenue, Monona, IA 52129

Waste Stream:

Fluff, Shredded Auto Residue

Waste Category:

26A

Profile Number:

GRL 07027 05/11/16

Profile Recertification Date: Waste Disposal Method:

Direct

Please note the special conditions for acceptance are as follows:

- 1. Each load must have a manifest signed by an authorized representative or agent of Clayton County Recycling accompanying the waste for disposal.
- 2. Any change in process or waste stream voids this approval. New waste will need to be profiled, including new chemical analysis and or MSDS Sheets if applicable, and submitted for review and approval prior to acceptance.
- 3. All loads must be properly targed and hauled by a licensed transporter.

We greatly appreciate the confidence and trust you have placed in selecting Glacier Ridge Landfill to manage your disposal needs. As an additional note, we have fulfilled all Wisconsin DNR regulations and our landfill meets or exceeds the design, construction, and operating standards promulgated under 40 CFR 258.

If you have questions or need assistance with additional waste disposal, please do not hesitate to contact us at (920) 387-0987.

Sincerely,

ADVANCED DISPOSAL SERVICES GLACIER RIDGE LANDFILL, LLC

Jayne Fae Walter

Administrative Assistant

JFW/smr Attachment

N7296 Highway V

Horicon, WI 53032

Telephone: (920) 387-0987

Fax: (920) 387-0980

AdvancedDisposal.com



February 25, 2016

Clayton County Recycling 11645 Echo Avenue Monona, IA 52129-0607

Attn: Ms. Gina Roys

Re: Special Waste Profile #GRL 07027 - Disposal of Auto Shredder Fluff and Fines

+ Asm

Dear Gina:

This letter is being submitted to notify you that the approval to dispose of the above-referenced waste needs to be recertified in order to continue shipping the waste to our facility. There are two alternatives for recertifying the information contained on the profile. If there have been any changes in the process generating the waste or materials used in the process, alternative number 1 must be used.

- Complete and sign the attached profile, noting any changes which have occurred in the process during the past year. Return
  the profile to my attention. Include with the profile copies of MSDSs for any new materials used in the process and any
  additional analysis that may have been performed on the waste.
- 2. If no changes have occurred in the process generating the waste complete the certification section below and return this letter to my attention, together with an updated analytical report for this material.

Should you have any questions with regard to this matter, please feel free to contact me.

Sincerely,

ADVANCED DISPOSAL SERVICES GLACIER RIDGE LANDFILL, LLC

Jayne Fac Walter

Administrative Assistant

Enclosure

Approvate Signature and Date

2-27

Landfill Signature and Date

Recortification Date: 5-11-16

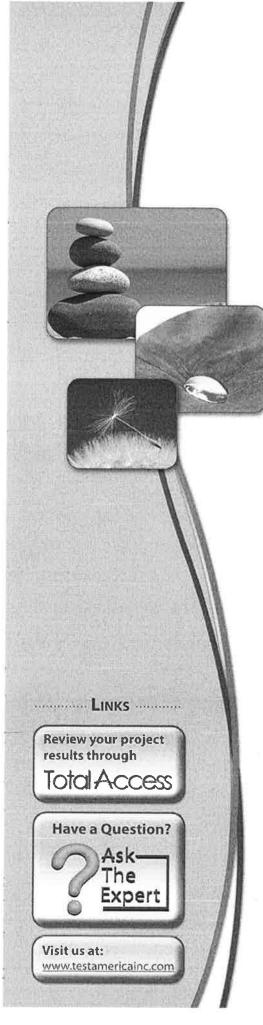
N7296 Highway V

Horlcon, WI 53032

Telephone: (920) 387-0987

Fax: (920) 387-0980

AdvancedDisposal.com



### **TestAmerica**

THE LEADER IN ENVIRONMENTAL TESTING

#### **ANALYTICAL REPORT**

TestAmerica Laboratories, Inc. TestAmerica Cedar Falls 704 Enterprise Drive Cedar Falls, IA 50613 Tel: (319)277-2401

TestAmerica Job ID: 310-73991-1 Client Project/Site: 020516 AM

For: Clayton County Recycling 11645 Echo Avenue PO BOX 861 Monona, Iowa 52159

Attn: Gina Roys

Authorized for release by: 2/23/2016 12:14:37 PM

Shali Brown, Project Manager II (615)301-5031 shali.brown@testamericainc.com

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

#### 2

#### **Table of Contents**

| Cover Page            | 1  |
|-----------------------|----|
| Table of Contents     |    |
| Case Narrative        | 3  |
| Sample Summary        | 4  |
| Client Sample Results | 5  |
| Chronicle             | 7  |
| Definitions           | 8  |
| Certification Summary | 9  |
| Method Summary        | 10 |
| Chain of Custody      | 11 |
| Receipt Checklists    | 15 |

#### Case Narrative

Client: Clayton County Recycling

Project/Site: 020516 AM

TestAmerica Job ID: 310-73991-1

Job ID: 310-73991-1

Laboratory: TestAmerica Cedar Falls

Narrative

Job Narrative 310-73991-1

#### Comments

No additional comments.

#### Receipt

The sample was received on 2/9/2016 8:50 AM; the sample arrived in good condition, properly preserved and, where required, on ice.

#### Except

Sample was received at the laboratory outside the required temperature criteria and without a collection time listed on the chain of custody.

#### GC Semi VOA

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

#### Metals

Method(s) 200.7 Rev 4.4, 6010C: The following sample was diluted due to the presence of an interferent: 020516 AM (310-73991-1). Elevated reporting limits (RLs) are provided.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

#### **General Chemistry**

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

#### **Organic Prep**

Method(s) 1311: EPA Method 1311 requires the room temperature to be maintained at 23 +/- 2 degrees Celsius for the duration of the leaching process. For batch 117321, the temperature 17.9-20.9 was outside of this range.

Method(s) 3550B: The following sample was prepared with less sample due to the nature of the sample matrix: 020516 AM (310-73991-1). Elevated reporting limits (RLs) are provided.

Method(s) 1311: EPA Method 1311 requires the room temperature to be maintained at 23 +/- 2 degrees Celsius for the duration of the leaching process. For batch 117897, the temperature 18.2-21.0 was outside of this range.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

#### **Sample Summary**

Client: Clayton County Recycling Project/Site: 020516 AM

TestAmerica Job ID: 310-73991-1

| Lab Sample ID | Client Sample ID | Matrix | Collected      | Received       |
|---------------|------------------|--------|----------------|----------------|
| 310-73991-1   | 020516 AM        | Solid  | 02/05/16 00:00 | 02/09/16 08:50 |





Client Sample ID: 020516 AM

Date Collected: 02/05/16 00:00 Date Received: 02/09/16 08:50 Lab Sample ID: 310-73991-1

Matrix: Solid

| Analyte                          | Result     | Qualifier | RL      | MDL | Unit      | D   | Prepared       | Analyzed       | Dil Fa |
|----------------------------------|------------|-----------|---------|-----|-----------|-----|----------------|----------------|--------|
| PCB-1016                         | <10.7      |           | 10.7    |     | ug/L      |     | 02/18/16 13:24 | 02/22/16 12:06 |        |
| PCB-1221                         | <10.7      |           | 10.7    |     | ug/L      |     | 02/18/16 13:24 | 02/22/16 12:06 |        |
| PCB-1232                         | <10.7      |           | 10.7    |     | ug/L      |     | 02/18/16 13:24 | 02/22/16 12:06 | 9      |
| PCB-1242                         | <10.7      |           | 10.7    |     | ug/L      |     | 02/18/16 13:24 | 02/22/16 12:06 | 1      |
| PCB-1248                         | <10.7      |           | 10.7    |     | ug/L      |     | 02/18/16 13:24 | 02/22/16 12:06 | 3      |
| PCB-1254                         | <10.7      |           | 10.7    |     | ug/L      |     | 02/18/16 13:24 | 02/22/16 12:06 |        |
| PCB-1260                         | <10.7      |           | 10.7    |     | ug/L      |     | 02/18/16 13:24 | 02/22/16 12:06 |        |
| PCB-1268                         | <10.7      |           | 10.7    |     | ug/L      |     | 02/18/16 13:24 | 02/22/16 12:06 |        |
| Polychlorinated biphenyls, Total | <10.7      |           | 10.7    |     | ug/L      |     | 02/18/16 13:24 | 02/22/16 12:06 |        |
| Surrogate                        | %Recovery  | Qualifier | Limits  |     |           |     | Prepared       | Analyzed       | Dil Fa |
| DCB Decachlorobiphenyl (Surr)    | 63         |           | 10-110  |     |           |     | 02/18/16 13:24 | 02/22/16 12:06 |        |
| Tetrachloro-m-xylene             | 71         |           | 10-110  |     |           |     | 02/18/16 13:24 | 02/22/16 12:06 |        |
| Method: 6010C - Metals (ICP)     | - TCLP     |           |         |     |           |     |                |                |        |
| Analyte                          |            | Qualifier | RL      | MDL | Unit      | D   | Prepared       | Analyzed       | Dil Fa |
| Arsenic                          | < 0.900    |           | 0.900   |     | mg/L      | - , | 02/11/16 10:11 | 02/11/16 20:59 |        |
| Barium                           | <1.50      |           | 1.50    |     | mg/L      |     | 02/11/16 10:11 | 02/11/16 20:59 | :      |
| Cadmium                          | < 0.0600   |           | 0.0600  |     | mg/L      |     | 02/11/16 10:11 | 02/11/16 20:59 | :      |
| Chromium                         | < 0.0600   |           | 0.0600  |     | mg/L      |     | 02/11/16 10:11 | 02/11/16 20:59 |        |
| Lead                             | <0.300     |           | 0.300   |     | mg/L      |     | 02/11/16 10:11 | 02/11/16 20:59 |        |
| Selenium                         | < 0.450    |           | 0.450   |     | mg/L      |     | 02/11/16 10:11 | 02/11/16 20:59 |        |
| Silver                           | <0.0600    |           | 0.0600  |     | mg/L      |     | 02/11/16 10:11 | 02/11/16 20:59 |        |
| Method: 7470A - Mercury (CV)     | AA) - TCLP |           |         |     |           |     |                |                |        |
| Analyte                          | Result     | Qualifier | RL      | MDL | Unit      | D   | Prepared       | Analyzed       | Dil Fa |
| Mercury                          | <0.00200   |           | 0.00200 |     | mg/L      |     | 02/15/16 10:08 | 02/16/16 13:14 |        |
| General Chemistry                |            |           |         |     |           |     |                |                |        |
| Analyte                          | Result     | Qualifier | RL      | RL  | Unit      | D   | Prepared       | Analyzed       | Dil Fa |
| вти                              | 6230       |           | 200     |     | BTU/lb    |     |                | 02/18/16 09:35 |        |
| Flashpoint                       | >215       |           | 40.0    |     | Degrees F |     |                | 02/17/16 15:47 |        |
| General Chemistry - Soluble      |            |           |         |     |           |     |                |                |        |
| Analyte                          |            | Qualifier | RL      | RL  | Unit      | D   | Prepared       | Analyzed       | Dil Fa |
| рН                               | 8.44       |           | 0.100   |     | SU        |     |                | 02/10/16 14:48 |        |

Client Sample ID: 020516 AM

Date Collected: 02/05/16 00:00

Date Received: 02/09/16 08:50

Lab Sample ID: 310-73991-1

Matrix: Solid Percent Solids: 87.6

| Analyte  | Result Qua | lifier RL | MDL | Unit  | D        | Prepared       | Analyzed       | Dil Fac |
|----------|------------|-----------|-----|-------|----------|----------------|----------------|---------|
| PCB-1016 | <0.266     | 0.266     |     | mg/Kg | *        | 02/09/16 14:23 | 02/19/16 13:00 | 1       |
| PCB-1221 | <0.266     | 0.266     |     | mg/Kg | ₽        | 02/09/16 14:23 | 02/19/16 13:00 | 1       |
| PCB-1232 | <0.266     | 0.266     |     | mg/Kg | ₽        | 02/09/16 14:23 | 02/19/16 13:00 | 1       |
| PCB-1242 | <0.266     | 0.266     |     | mg/Kg | ₽        | 02/09/16 14:23 | 02/19/16 13:00 | 1       |
| PCB-1248 | <0.266     | 0.266     |     | mg/Kg | ₽        | 02/09/16 14:23 | 02/19/16 13:00 | 1       |
| PCB-1254 | <0.266     | 0.266     |     | mg/Kg | ₽        | 02/09/16 14:23 | 02/19/16 13:00 | 1       |
| PCB-1260 | <0.266     | 0.266     |     | mg/Kg | <b>‡</b> | 02/09/16 14:23 | 02/19/16 13:00 | 1       |
| PCB-1268 | <0.266     | 0.266     |     | mg/Kg | ₽        | 02/09/16 14:23 | 02/19/16 13:00 | 1       |

TestAmerica Cedar Falls

#### **Client Sample Results**

Client: Clayton County Recycling Project/Site: 020516 AM

TestAmerica Job ID: 310-73991-1

Client Sample ID: 020516 AM

Date Collected: 02/05/16 00:00 Date Received: 02/09/16 08:50

Lab Sample ID: 310-73991-1

Matrix: Solid

Percent Solids: 87.6

| ١ | Surrogate                     | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|---|-------------------------------|-----------|-----------|----------|----------------|----------------|---------|
|   | DCB Decachlorobiphenyl (Surr) | 89        |           | 10-110   | 02/09/16 14:23 | 02/19/16 13:00 | 1       |
|   | Tetrachloro-m-xylene          | 65        |           | 10 - 110 | 02/09/16 14:23 | 02/19/16 13:00 | 1       |

| General Chemistry             |                  |      |          |   |                |                |         |
|-------------------------------|------------------|------|----------|---|----------------|----------------|---------|
| Analyte                       | Result Qualifier | RL   | MDL Unit | D | Prepared       | Analyzed       | Dil Fac |
| Halogens, Extractable Organic | 106              | 54.9 | mg/Kg    | ₽ | 02/16/16 10:30 | 02/17/16 11:16 | 1       |

#### **Lab Chronicle**

Client: Clayton County Recycling

Project/Site: 020516 AM

TestAmerica Job ID: 310-73991-1

Client Sample ID: 020516 AM

Date Collected: 02/05/16 00:00 Date Received: 02/09/16 08:50 Lab Sample ID: 310-73991-1

Matrix: Solid

| Prep Type | Batch<br>Type | Batch<br>Method | Run | Dilution<br>Factor | Batch<br>Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|---------------|-----------------|-----|--------------------|-----------------|----------------------|---------|---------|
| TCLP      | Leach         | 1311            |     |                    | 117897          | 02/17/16 17:28       | CK1     | TAL CF  |
| TCLP      | Prep          | 3510C           |     |                    | 118011          | 02/18/16 13:24       | DLK     | TAL CF  |
| TCLP      | Analysis      | 8082A           |     | 1                  | 118263          | 02/22/16 12:06       | BKT     | TAL CF  |
| TCLP      | Leach         | 1311            |     |                    | 117321          | 02/10/16 14:43       | CK1     | TAL CF  |
| TCLP      | Prep          | 3010A           |     |                    | 117368          | 02/11/16 10:11       | JNR     | TAL CF  |
| TCLP      | Analysis      | 6010C           |     | 3                  | 117440          | 02/11/16 20:59       | OAD     | TAL CF  |
| TCLP      | Leach         | 1311            |     |                    | 117321          | 02/10/16 14:43       | CK1     | TAL CF  |
| TCLP      | Prep          | 7470A           |     |                    | 117557          | 02/15/16 10:08       | SAD     | TAL CF  |
| TCLP      | Analysis      | 7470A           |     | 1                  | 117766          | 02/16/16 13:14       | SAD     | TAL CF  |
| Soluble   | Leach         | DI Leach        |     |                    | 117316          | 02/10/16 13:00       | SAS     | TAL CF  |
| Soluble   | Analysis      | 9045D           |     | 1                  | 117317          | 02/10/16 14:48       | SAS     | TAL CF  |
| Total/NA  | Analysis      | D240-87         |     | 1                  | 318243          | 02/18/16 09:35       | JAB     | TAL NSH |
| Total/NA  | Analysis      | D92             |     | 1                  | 117888          | 02/17/16 15:47       | JCF     | TAL CF  |

Client Sample ID: 020516 AM

Date Collected: 02/05/16 00:00

Date Received: 02/09/16 08:50

Lab Sample ID: 310-73991-1

Matrix: Solid Percent Solids: 87.6

|           | Batch    | Batch  |     | Dilution | Batch  | Prepared       |         |         |
|-----------|----------|--------|-----|----------|--------|----------------|---------|---------|
| Prep Type | Туре     | Method | Run | Factor   | Number | or Analyzed    | Analyst | Lab     |
| Total/NA  | Prep     | 3550B  |     |          | 117225 | 02/09/16 14:23 | QRA     | TAL CF  |
| Total/NA  | Analysis | 8082A  |     | 1        | 118124 | 02/19/16 13:00 | BKT     | TAL CF  |
| Total/NA  | Prep     | 9023   |     |          | 317743 | 02/16/16 10:30 | ADN     | TAL NSH |
| Total/NA  | Analysis | 9023   |     | 1        | 317752 | 02/17/16 11:16 | CLJ     | TAL NSH |

#### Laboratory References:

TAL CF = TestAmerica Cedar Falls, 704 Enterprise Drive, Cedar Falls, IA 50613, TEL (319)277-2401
TAL NSH = TestAmerica Nashville, 2960 Foster Creighton Drive, Nashville, TN 37204, TEL (615)726-0177

#### **Definitions/Glossary**

Client: Clayton County Recycling Project/Site: 020516 AM

TestAmerica Job ID: 310-73991-1

#### Glossary

| Abbreviation   | These commonly used abbreviations may or may not be present in this report.                                 |
|----------------|---|
| п              | Listed under the "D" column to designate that the result is reported on a dry weight basis                  |
| %R             | Percent Recovery  |
| CFL            | Contains Free Liquid  |
| CNF            | Contains no Free Liquid   |
| DER            | Duplicate error ratio (normalized absolute difference)  |
| Dil Fac        | Dilution Factor   |
| DL, RA, RE, IN | Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample |
| DLC            | Decision level concentration  |
| MDA            | Minimum detectable activity   |
| EDL            | Estimated Detection Limit   |
| MDC            | Minimum detectable concentration  |
| MDL            | Method Detection Limit  |
| ML             | Minimum Level (Dioxin)  |
| NC             | Not Calculated  |
| ND             | Not detected at the reporting limit (or MDL or EDL if shown)  |
| PQL            | Practical Quantitation Limit  |
| QC             | Quality Control   |
| RER            | Relative error ratio  |
| RL             | Reporting Limit or Requested Limit (Radiochemistry)   |
| RPD            | Relative Percent Difference, a measure of the relative difference between two points                        |
| TEF            | Toxicity Equivalent Factor (Dioxin)   |
| TEQ            | Toxicity Equivalent Quotient (Dioxin)   |

#### **Certification Summary**

Client: Clayton County Recycling

Project/Site: 020516 AM

TestAmerica Job ID: 310-73991-1

#### Laboratory: TestAmerica Cedar Falls

Unless otherwise noted, all analytes for this laboratory were covered under each certification below.

| Authority             | Program                     |                           | EPA Region              | Certification ID    | Expiration Date |
|-----------------------|-----------------------------|---------------------------|-------------------------|---------------------|-----------------|
| owa                   | State Pro                   | gram                      | 7                       | 007                 | 12-01-15 *      |
| The following analyte | s are included in this repo | ort, but certification is | s not offered by the go | overning authority: |                 |
| Analysis Method       | Prep Method                 | Matrix                    | Analyt                  | e                   |                 |
| 8082A                 | 3510C                       | Solid                     | PCB-1                   | 268                 |                 |
| 8082A                 | 3550B                       | Solid                     | PCB-1                   | 268                 |                 |
| D92                   |                             | Solid                     | Flash                   | oint                |                 |

#### Laboratory: TestAmerica Nashville

The certifications listed below are applicable to this report.

|   | Authority | Program       | <b>EPA</b> Region | Certification ID | <b>Expiration Date</b> |
|---|-----------|---------------|-------------------|------------------|------------------------|
| ľ | lowa      | State Program | 7                 | 131              | 04-01-16 *             |

\* Certification renewal pending - certification considered valid.

TestAmerica Cedar Falls

Page 9 of 16

2/23/2016

#### **Method Summary**

Client: Clayton County Recycling

Project/Site: 020516 AM

TestAmerica Job ID: 310-73991-1

| Method  | Method Description                                     | Protocol | Laboratory |
|---------|--|----------|------------|
| 8082A   | Polychlorinated Biphenyls (PCBs) by Gas Chromatography | SW846    | TAL CF     |
| 5010C   | Metals (ICP)   | SW846    | TAL CF     |
| 7470A   | Mercury (CVAA)   | SW846    | TAL CF     |
| 9023    | Organic Halides, Extractable (EOX)                     | SW846    | TAL NSH    |
| 9045D   | pН   | SW846    | TAL CF     |
| D240-87 | Heat of Combustion                                     | ASTM     | TAL NSH    |
| 092     | Flashpoint   | ASTM     | TAL CF     |

#### **Protocol References:**

ASTM = ASTM International

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

#### **Laboratory References:**

TAL CF = TestAmerica Cedar Falls, 704 Enterprise Drive, Cedar Falls, IA 50613, TEL (319)277-2401
TAL NSH = TestAmerica Nashville, 2960 Foster Crelghton Drive, Nashville, TN 37204, TEL (615)726-0177

TestAmerica Cedar Falls





Cooler/Sample Receipt and Temperature Log Form

| Client Information                                    | STATE OF THE PROPERTY OF THE P |
|---|--|
| client: Clayton County Rec                            | W CLINA  |
| City/State: MONOMA )A                                 | Project:   |
| Receipt Information                                   | On the second se |
| Date/Time Received: 2/9/16 8:                         | 50 Received By: AM   |
| Delivery Type: DPS FedEx                              | FedEx Ground US Mail Spee Dec  |
| ☐ TA Courier ☐ TA Field Se                            | 1 2000-100   |
| Condition of Cooler/Containers                        |  |
| Sample(s) received in Cooler? Yes                     | No If yes: Coaler ID:  |
| Multiple Coolers? Yes                                 | No If yes: Cooler # of   |
| Cooler Custody Seals Present? Yes                     | No If yes: Cooler custody seals intact? Yes No   |
| Sample Custody Seals Present? Yes                     | No If yes: Sample custody seals intact? Yes No   |
| Trip Blank Present? Yes                               | No If yes: Which VOA samples are in cooler? 1  |
|   |  |
| A.1   |  |
| Temperature Record Solar Education                    | (A, Jup 2 Vertical and Control of the Control of th |
| Coolant: Wetice Blueice                               |  |
|   | Dry ice Other:NONE   |
| Temperature Blank? Yes Yo                             | ID & Bottle Type:  |
| Note: If yes, use temp blank for measurement,         | If no, specify sample ID(s) and bottle type used to take measurement.  |
| Thermometer ID:                                       | Correction Factor (°C):  |
| Uncorrected Temp (°C):                                | Corrected Temp (°C):   |
| Exceptions Noted                                      |  |
| 1) If temperature exceeds criteria, was sample        | e(s) received same day of sampling? Yes No   |
| a) If yes: Is there evidence that the chilling        | ng process began?  |
| 2) If temperature is <0°C are there obvious si        | L VIO  |
| (e.g., bulging septa, broken/cracked bottle:          | gns that the integrity of sample containers is compromised?  |
| NOTE: If yes, contact PM before proceeding. If no. p. |  |
| Additional Comments                                   | or regul   |
|   | である。<br>では、<br>では、<br>では、<br>では、<br>では、<br>では、<br>では、<br>では、   |
|   |  |
|   |  |
|   |  |
|   |  |

Document: CF-LG-WI-002 Revision: 21 Date: 7/28/2015

& cerrecueling. com Send QC with report ime Fax Results Email Results TAT brebneta (Ibseria lies tauM) TAT HRUS or 1 - 800 - f50 - 2401 Recepolit Analyze For 2100 gena X Phone: 319 - 277 - 2401 Fax: 319 - 277 - 2425 Relinquished by Proj. Mgr. Telephone: Shipped Via Project Manager. Ž Project Number: Proj. Mgr. Email: Project Name: Matell ð 外 Your PO #: TA Quote #: Invoice To: ama Laboratory Comments 10 IIOS Date Matrix Sludge Drinking Water NOTES: Nastewater Sco 3-539 Groundwater Other (Specify) None (Black & White Label) Haso, Giass (Yellow & White Label) Preservative NOTICE: Pre-Arrangements must be made AT LEAST 48 Hours in ADVANCE to receive results 120, Plastic (Yellow & White Label) Comments: Temperature Upon Receipt: Fax: with RUSH turn around time commitments; additional charges may be assessed. (ladeJ stiffW & egnetO ) HOEV (leda\_ efirtW & eul8) IOI NOTE: There may be a charge assessed for TeslAmerica disposing of sample remainders.

Relinquished by: The Received by: HO2 (Red & White Label) NOTE: All turn around times are calculated from the time of receipt at TestAmerica Field Filtered unde ensodmoc Cedar Falls, IA 50613 704 Enterprise Drive Cedar Falls Division and Cho qe15 Time # of containers shipped SULTEN PO Posson, baldma2 amII 2-4-16 11645 Date Date Sampled (Signature) Company: Address: City/State/Zip Code: Telephone Number: Sampled by: (Print Name) Send Report To: Shipped Via: Received for TestAmerica by: Sample ID





#### COOLER RECEIPT FORM

| Cooler Received/Opened On 2.12.16 @ 0935   | 8.18           |
|--|----------------|
| Time Samples Removed From Cooler Time Samples Placed in Storage                              | 7 (2 Hour Win  |
| 1. Tracking # 727 (last 4 digits, FedEx) Courier: FedEx                                      |                |
| IR Gun ID -18299455 pH Strip Lot H0554612 Chlorine Strip Lot 072815A                         |                |
| 2. Temperature of rep. sample or temp blank when opened: D. B. Degrees Celsius               |                |
| 3. If Item #2 temperature is 0°C or less, was the representative sample or temp blank frozer | 1? YES NONA    |
| 4. Were custody seals on outside of cooler?  | YES.,NO.).NA   |
| If yes, how many and where:  |                |
| 5. Were the seals intact, signed, and dated correctly?                                       | YESNO.         |
| 6. Were custody papers inside cooler?  | YES NONA       |
| I certify that I opened the cooler and answered questions 1-6 (intial)                       |                |
| 7. Were custody seals on containers: YES and Intact  | YES,NO         |
| Were these signed and dated correctly?   | YESNO.         |
| 8. Packing mat'l used Bubblewrap Plastic bag Peanuts Vermiculite Foam Insert Pag             | per Other None |
| 9. Cooling process: , (Ce lce-pack lce (direct contact) Dry id                               | ce Other None  |
| 10. Did all containers arrive in good condition (unbroken)?                                  | TES NO NA      |
| 11. Were all container labels complete (#, date, signed, pres., etc)?                        | ESNONA         |
| 12. Did all container labels and tags agree with custody papers?                             | NONA           |
| 13a. Were VOA vials received?  | YES . NO.NA    |
| b. Was there any observable headspace present in any VOA vial?                               | YESNO,         |
| 14. Was there a Trip Blank in this cooler? YESNO.  | nce #          |
| certify that I unloaded the cooler and answered questions 7-14 (intial)                      | Mona           |
| 15a. On pres'd bottles, did pH test strips suggest preservation reached the correct pH level | 7 YESNO        |
| b. Did the bottle labels indicate that the correct preservatives were used                   | YESNO          |
| 16. Was residual chlorine present?   | YESNO(NA)      |
| certify that I checked for chlorine and pH as per SOP and answered questions 15-16 (intial)  | <u>msm</u>     |
| 17. Were custody papers properly filled out (ink, signed, etc)?                              | YES.,.NONA     |
| 18. Did you sign the custody papers in the appropriate place?                                | ESNONA         |
| 19. Were correct containers used for the analysis requested?                                 | ESNONA         |
| 20. Was sufficient amount of sample sent in each container?                                  | XES)NONA       |
| certify that I entered this project into LIMS and answered questions 17-20 (initial)         | nom            |
| certify that I attached a label with the unique LIMS number to each container (intial)       | MEM            |
| 11. Were there Non-Conformance Issues at login? YES. Was a NCM generated? YES:               | (NO) #         |

om:

Brown, Shali

>nt:

Wednesday, February 10, 2016 5:34 PM

Facciani, Melene; Jeffrey Lambert

Loc: 310 73991

**sbject:** Clayton County Samples Workshare from Cedar Falls to Nashville

llo,

e following can ship Thursday to Nashville for Friday delivery. One container each job.

'ou are still having issues printing the sub COC's then you can just include this email with the samples so login knows to scan them are at the jobs are.

| 0-<br>977<br>983<br>988<br>990<br>991<br>993 | 310 - | 73977<br>83<br>88<br>90 |
|--|-------|-------------------------|
| anks,<br>ali                                 |       | 93                      |

Read by: MIN 3: 1 TAN 217.160 0935

0.00

#### **Login Sample Receipt Checklist**

Client: Clayton County Recycling

Job Number: 310-73991-1

Login Number: 73991

List Number: 1

Creator: Leitz, Gemma H

List Source: TestAmerica Cedar Falls

| Question  | Answer | Comment |
|---|--------|---------|
| Radioactivity wasn't checked or is = background as measured by a survey meter.</td <td>N/A</td> <td></td> | N/A    |         |
| The cooler's custody seal, if present, is intact.   | N/A    |         |
| Sample custody seals, if present, are intact.   | N/A    |         |
| The cooler or samples do not appear to have been compromised or tampered with.                            | True   |         |
| Samples were received on ice.   | True   |         |
| Cooler Temperature is acceptable.   | True   |         |
| Cooler Temperature is recorded.   | True   |         |
| COC is present.   | True   |         |
| COC is filled out in ink and legible.   | True   |         |
| COC is filled out with all pertinent information.   | True   |         |
| Is the Field Sampler's name present on COC?   | True   |         |
| There are no discrepancies between the containers received and the COC.                                   | True   |         |
| Samples are received within Holding Time (excluding tests with immediate HTs)                             | True   |         |
| Sample containers have legible labels.  | True   |         |
| Containers are not broken or leaking.   | True   |         |
| Sample collection date/times are provided.  | True   |         |
| Appropriate sample containers are used.   | True   |         |
| Sample bottles are completely filled.   | True   |         |
| Sample Preservation Verified.   | True   |         |
| There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs                          | True   |         |
| Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").                           | True   |         |
| Multiphasic samples are not present.  | True   |         |
| Samples do not require splitting or compositing.  | True   |         |
| Residual Chlorine Checked.  | N/A    |         |

#### **Login Sample Receipt Checklist**

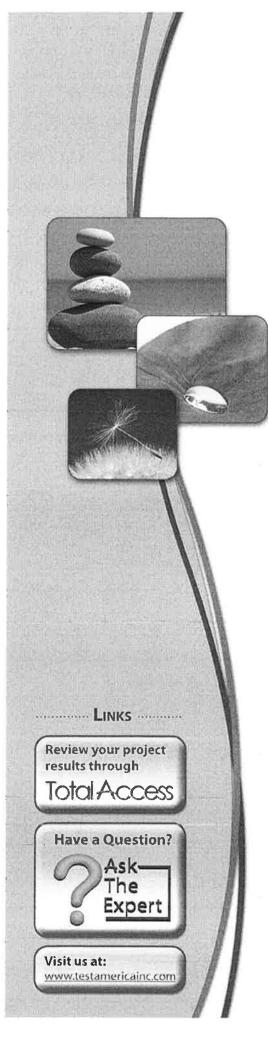
Client: Clayton County Recycling

Job Number: 310-73991-1

Login Number: 73991 List Number: 2 List Source: TestAmerica Nashville List Creation: 02/15/16 04:14 PM

Creator: McBride, Mike

| Question   | Anous          | Comment |
|--|----------------|---------|
| Radioactivity wasn't checked or is = background as measured by a</td <td>Answer<br/>True</td> <td>Comment</td> | Answer<br>True | Comment |
| survey meter. The cooler's custody seal, if present, is intact.  | N/A            |         |
| Sample custody seals, if present, are intact.  | N/A            |         |
| The cooler or samples do not appear to have been compromised or tampered with.                                 | True           |         |
| Samples were received on ice.  | True           |         |
| Cooler Temperature is acceptable.  | True           |         |
| Cooler Temperature is recorded.  | True           |         |
| COC is present.  | True           |         |
| COC is filled out in ink and legible.  | True           |         |
| COC is filled out with all pertinent information.  | True           |         |
| Is the Field Sampler's name present on COC?  | True           |         |
| There are no discrepancies between the containers received and the COC.  | True           |         |
| Samples are received within Holding Time (excluding tests with immediate HTs)                                  | True           |         |
| Sample containers have legible labels.   | True           |         |
| Containers are not broken or leaking.  | True           |         |
| Sample collection date/times are provided.   | True           |         |
| Appropriate sample containers are used.  | True           |         |
| Sample bottles are completely filled.  | True           |         |
| Sample Preservation Verified.  | N/A            |         |
| There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs                               | True           |         |
| Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").                                | True           |         |
| Multiphasic samples are not present.   | True           |         |
| Samples do not require splitting or compositing.   | True           |         |
| Residual Chlorine Checked.   | N/A            |         |



## **TestAmerica**

THE LEADER IN ENVIRONMENTAL TESTING

#### **ANALYTICAL REPORT**

TestAmerica Laboratories, Inc. TestAmerica Cedar Falls 704 Enterprise Drive Cedar Falls, IA 50613 Tel: (319)277-2401

TestAmerica Job ID: 310-73988-1 Client Project/Site: 020416 AM

For: Clayton County Recycling 11645 Echo Avenue PO BOX 861 Monona, Iowa 52159

Attn: Gina Roys

Authorized for release by: 2/23/2016 12:14:02 PM

Shali Brown, Project Manager II (615)301-5031 shali.brown@testamericainc.com

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

#### **Table of Contents**

| Cover Page            | 1  |
|-----------------------|----|
| Table of Contents     |    |
| Case Narrative        | 3  |
| Sample Summary        | 4  |
| Client Sample Results | 5  |
| Chronicle             | 7  |
| Definitions           | 8  |
| Certification Summary | 9  |
| Method Summary        | 10 |
| Chain of Custody      | 11 |
| Receipt Checklists    | 15 |

#### **Case Narrative**

Client: Clayton County Recycling

Project/Site: 020416 AM

TestAmerica Job ID: 310-73988-1

Job ID: 310-73988-1

Laboratory: TestAmerica Cedar Falls

**Narrative** 

Job Narrative 310-73988-1

#### Comments

No additional comments.

#### Receipt

The sample was received on 2/9/2016 8:50 AM; the sample arrived in good condition, properly preserved and, where required, on ice.

#### **Except:**

Sample was received at the laboratory outside the required temperature criteria and without a collection time listed on the chain of custody.

#### GC Semi VOA

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

#### Metals

Method(s) 200.7 Rev 4.4, 6010C: The following sample was diluted due to the presence of an interferent: 020416 AM (310-73988-1). Elevated reporting limits (RLs) are provided.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

#### **General Chemistry**

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

#### **Organic Prep**

Method(s) 1311: EPA Method 1311 requires the room temperature to be maintained at 23 +/- 2 degrees Celsius for the duration of the leaching process. For batch 117321, the temperature 17.9-20.9 was outside of this range.

Method(s) 3550B: The following sample was prepared with less sample due to the nature of the sample matrix: 020416 AM (310-73988-1). Elevated reporting limits (RLs) are provided.

Method(s) 1311: EPA Method 1311 requires the room temperature to be maintained at 23 +/- 2 degrees Celsius for the duration of the leaching process. For batch 117897, the temperature 18.2-21.0 was outside of this range.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

#### **Sample Summary**

Client: Clayton County Recycling Project/Site: 020416 AM

TestAmerica Job ID: 310-73988-1

| Lab Sample ID | Client Sample ID | Matrix | Collected | Received       |
|---------------|------------------|--------|-----------|----------------|
| 310-73988-1   | 020416 AM        | Solid  |           | 02/09/16 08:50 |

4

Client Sample ID: 020416 AM

Date Collected: 02/04/16 00:00 Date Received: 02/09/16 08:50 Lab Sample ID: 310-73988-1

Matrix: Solid

| Method: 8082A - Polychlorina<br>Analyte |            | Qualifier | , RL    | _   | Unit      | D | Prepared       | Analyzed       | Dil Fac |
|---|------------|-----------|---------|-----|-----------|---|----------------|----------------|---------|
| PCB-1016                                | <10.7      |           | 10.7    |     | ug/L      | - | 02/18/16 13:24 | 02/22/16 11:40 | -       |
| PCB-1221                                | <10.7      |           | 10.7    |     | ug/L      |   | 02/18/16 13:24 | 02/22/16 11:40 |         |
| PCB-1232                                | <10.7      |           | 10,7    |     | ug/L      |   | 02/18/16 13:24 | 02/22/16 11:40 |         |
| PCB-1242                                | <10.7      |           | 10.7    |     | ug/L      |   | 02/18/16 13:24 | 02/22/16 11:40 |         |
| PCB-1248                                | <10.7      |           | 10.7    |     | ug/L      |   | 02/18/16 13:24 | 02/22/16 11:40 | 1       |
| PCB-1254                                | <10.7      |           | 10.7    |     | ug/L      |   | 02/18/16 13:24 | 02/22/16 11:40 | Ä       |
| PCB-1260                                | <10.7      |           | 10.7    |     | ug/L      |   | 02/18/16 13:24 | 02/22/16 11:40 | - 1     |
| PCB-1268                                | <10.7      |           | 10.7    |     | ug/L      |   | 02/18/16 13:24 | 02/22/16 11:40 | -       |
| Polychlorinated biphenyls, Total        | <10.7      |           | 10.7    |     | ug/L      |   | 02/18/16 13:24 | 02/22/16 11:40 | 3       |
| Surrogate                               | %Recovery  | Qualifier | Limits  |     |           |   | Prepared       | Analyzed       | Dil Fac |
| DCB Decachlorobiphenyl (Surr)           | 54         |           | 10-110  |     |           |   | 02/18/16 13:24 | 02/22/16 11:40 | 1       |
| Tetrachloro-m-xylene                    | 70         |           | 10-110  |     |           |   | 02/18/16 13:24 | 02/22/16 11:40 | 1       |
| Method: 6010C - Metals (ICP)            | - TCLP     |           |         |     |           |   |                |                |         |
| Analyte                                 |            | Qualifier | RL      | MDL | Unit      | D | Prepared       | Analyzed       | Dil Fac |
| Arsenic                                 | < 0.900    |           | 0.900   |     | mg/L      |   | 02/11/16 10:11 | 02/11/16 20:53 | 3       |
| Barium                                  | <1.50      |           | 1.50    |     | mg/L      |   | 02/11/16 10:11 | 02/11/16 20:53 | 3       |
| Cadmium                                 | < 0.0600   |           | 0.0600  |     | mg/L      |   | 02/11/16 10:11 | 02/11/16 20:53 | 3       |
| Chromium                                | <0.0600    |           | 0.0600  |     | mg/L      |   | 02/11/16 10:11 | 02/11/16 20:53 | 3       |
| Lead                                    | < 0.300    |           | 0.300   |     | mg/L      |   | 02/11/16 10:11 | 02/11/16 20:53 | 3       |
| Selenium                                | < 0.450    |           | 0.450   |     | mg/L      |   | 02/11/16 10:11 | 02/11/16 20:53 | 3       |
| Silver                                  | <0.0600    |           | 0.0600  |     | mg/L      |   | 02/11/16 10:11 | 02/11/16 20:53 | 3       |
| Method: 7470A - Mercury (CV             | AA) - TCLP |           |         |     |           |   |                |                |         |
| Analyte                                 |            | Qualifier | RL      | MDL | Unit      | D | Prepared       | Analyzed       | Dil Fac |
| Mercury                                 | <0.00200   |           | 0.00200 |     | mg/L      | - | 02/15/16 10:08 | 02/16/16 13:09 | 1       |
| General Chemistry                       |            |           |         |     |           |   |                |                |         |
| Analyte                                 | Result     | Qualifier | RL      | RL  | Unit      | D | Prepared       | Analyzed       | Dil Fac |
| вти                                     | 6660       |           | 200     |     | BTU/lb    |   |                | 02/18/16 09:35 | 1       |
| Flashpoint                              | >215       |           | 40.0    |     | Degrees F |   |                | 02/17/16 15:47 | 1       |
| General Chemistry - Soluble             |            |           |         |     |           |   |                |                |         |
| Analyte                                 | Result     | Qualifier | RL      | RL  | Unit      | D | Prepared       | Analyzed       | Dil Fac |
| pH                                      | 8.70       |           | 0.100   |     | SU        |   |                | 02/10/16 14:46 | 1       |

Client Sample ID: 020416 AM

Date Collected: 02/04/16 00:00

Date Received: 02/09/16 08:50

Lab Sample ID: 310-73988-1

Matrix: Solid

Percent Solids: 89.1

| Analyte  | Result Qualifier | RL    | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|----------|------------------|-------|-----|-------|---|----------------|----------------|---------|
| PCB-1016 | <0.270           | 0.270 |     | mg/Kg | ☆ | 02/09/16 14:23 | 02/19/16 12:35 | 1       |
| PCB-1221 | <0.270           | 0.270 |     | mg/Kg | ₽ | 02/09/16 14:23 | 02/19/16 12:35 | 1       |
| PCB-1232 | <0.270           | 0.270 |     | mg/Kg | ₽ | 02/09/16 14:23 | 02/19/16 12:35 | 1       |
| PCB-1242 | <0.270           | 0.270 |     | mg/Kg | ₽ | 02/09/16 14:23 | 02/19/16 12:35 | 1       |
| PCB-1248 | <0.270           | 0.270 |     | mg/Kg | ☆ | 02/09/16 14:23 | 02/19/16 12:35 | 1       |
| PCB-1254 | <0.270           | 0.270 |     | mg/Kg | ¤ | 02/09/16 14:23 | 02/19/16 12:35 | 1       |
| PCB-1260 | <0.270           | 0.270 |     | mg/Kg | ≎ | 02/09/16 14:23 | 02/19/16 12:35 | 1       |
| PCB-1268 | <0.270           | 0.270 |     | mg/Kg | ₽ | 02/09/16 14:23 | 02/19/16 12:35 | 1       |

TestAmerica Cedar Falls

#### **Client Sample Results**

Client: Clayton County Recycling Project/Site: 020416 AM

TestAmerica Job ID: 310-73988-1

Client Sample ID: 020416 AM

Date Collected: 02/04/16 00:00

Date Received: 02/09/16 08:50

Lab Sample ID: 310-73988-1

Matrix: Solid

Percent Solids: 89.1

| Surrogate                     | %Recovery | Qualifier | Limits | Prepared       | Analyzed       | Dil Fac |
|-------------------------------|-----------|-----------|--------|----------------|----------------|---------|
| DCB Decachlorobiphenyl (Surr) | 80        |           | 10-110 | 02/09/16 14:23 | 02/19/16 12:35 | 1       |
| Tetrachloro-m-xylene          | 64        |           | 10-110 | 02/09/16 14:23 | 02/19/16 12:35 | 1       |

| General Chemistry Analyte     | Result Qualifier | RL   | MDL U | nit   | D | Prepared       | Analyzed       | Dil Fac |
|-------------------------------|------------------|------|-------|-------|---|----------------|----------------|---------|
| Halogens, Extractable Organic | 2330             | 75.8 | n     | ng/Kg | ₽ | 02/16/16 10:30 | 02/17/16 11:16 | 1       |

#### Lab Chronicle

Client: Clayton County Recycling

Project/Site: 020416 AM

TestAmerica Job ID: 310-73988-1

Lab Sample ID: 310-73988-1

Matrix: Solid

#### Client Sample ID: 020416 AM

Date Collected: 02/04/16 00:00 Date Received: 02/09/16 08:50

| Ргер Туре | Batch<br>Type | Batch<br>Method | Run | Dilution<br>Factor | Batch<br>Number | Prepared<br>or Analyzed | Analyst | Lab     |
|-----------|---------------|-----------------|-----|--------------------|-----------------|-------------------------|---------|---------|
| TCLP      | Leach         | 1311            |     |                    | 117897          | 02/17/16 17:28          | CK1     | TAL CF  |
| TCLP      | Prep          | 3510C           |     |                    | 118011          | 02/18/16 13:24          | DLK     | TAL CF  |
| TCLP      | Analysis      | 8082A           |     | 1                  | 118263          | 02/22/16 11:40          | BKT     | TAL CF  |
| TCLP      | Leach         | 1311            |     |                    | 117321          | 02/10/16 14:43          | CK1     | TAL CF  |
| TCLP      | Prep          | 3010A           |     |                    | 117368          | 02/11/16 10:11          | JNR     | TAL CF  |
| TCLP      | Analysis      | 6010C           |     | 3                  | 117440          | 02/11/16 20:53          | OAD     | TAL CF  |
| TCLP      | Leach         | 1311            |     |                    | 117321          | 02/10/16 14:43          | CK1     | TAL CF  |
| TCLP      | Prep          | 7 <b>4</b> 70A  |     |                    | 117557          | 02/15/16 10:08          | SAD     | TAL CF  |
| TCLP      | Analysis      | 7470A           |     | 1                  | 117766          | 02/16/16 13:09          | SAD     | TAL CF  |
| Soluble   | Leach         | DI Leach        |     |                    | 117316          | 02/10/16 13:00          | SAS     | TAL CF  |
| Soluble   | Analysis      | 9045D           |     | 1                  | 117317          | 02/10/16 14:46          | SAS     | TAL CF  |
| Total/NA  | Analysis      | D240-87         |     | 1                  | 318243          | 02/18/16 09:35          | JAB     | TAL NSH |
| Total/NA  | Analysis      | D92             |     | 1                  | 117888          | 02/17/16 15:47          | JCF     | TAL CF  |

Client Sample ID: 020416 AM

Date Collected: 02/04/16 00:00 Date Received: 02/09/16 08:50 Lab Sample ID: 310-73988-1

Matrix: Solid Percent Solids: 89.1

| Prep Type | Batch<br>Type | Batch<br>Method | Run | Dilution<br>Factor | Batch<br>Number | Prepared<br>or Analyzed | Analyst | Lab     |
|-----------|---------------|-----------------|-----|--------------------|-----------------|-------------------------|---------|---------|
| Total/NA  | Prep          | 3550B           |     |                    | 117225          | 02/09/16 14:23          | QRA     | TAL CF  |
| Total/NA  | Analysis      | 8082A           |     | 4                  | 118124          | 02/19/16 12:35          | BKT     | TAL CF  |
| Total/NA  | Prep          | 9023            |     |                    | 317743          | 02/16/16 10:30          | ADN     | TAL NSH |
| Total/NA  | Analysis      | 9023            |     | 1                  | 317752          | 02/17/16 11:16          | CLJ     | TAL NSH |

#### **Laboratory References:**

TAL CF = TestAmerica Cedar Falls, 704 Enterprise Drive, Cedar Falls, IA 50613, TEL (319)277-2401
TAL NSH = TestAmerica Nashville, 2960 Foster Creighton Drive, Nashville, TN 37204, TEL (615)726-0177

#### **Definitions/Glossary**

Client: Clayton County Recycling Project/Site: 020416 AM

TestAmerica Job ID: 310-73988-1

#### Glossary

| Abbreviation   | These commonly used abbreviations may or may not be present in this report.                                 |  |  |  |  |  |
|----------------|---|--|--|--|--|--|
| п              | Listed under the "D" column to designate that the result is reported on a dry weight basis                  |  |  |  |  |  |
| %R             | Percent Recovery  |  |  |  |  |  |
| CFL            | Contains Free Liquid  |  |  |  |  |  |
| CNF            | Contains no Free Liquid   |  |  |  |  |  |
| DER            | Duplicate error ratio (normalized absolute difference)  |  |  |  |  |  |
| Dil Fac        | Dilution Factor   |  |  |  |  |  |
| DL, RA, RE, IN | Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample |  |  |  |  |  |
| DLC            | Decision level concentration  |  |  |  |  |  |
| MDA            | Minimum detectable activity   |  |  |  |  |  |
| EDL            | Estimated Detection Limit   |  |  |  |  |  |
| MDC            | Minimum detectable concentration  |  |  |  |  |  |
| MDL            | Method Detection Limit  |  |  |  |  |  |
| ML             | Minimum Level (Dioxin)  |  |  |  |  |  |
| NC             | Not Calculated  |  |  |  |  |  |
| ND             | Not detected at the reporting limit (or MDL or EDL if shown)  |  |  |  |  |  |
| PQL            | Practical Quantitation Limit  |  |  |  |  |  |
| QC             | Quality Control   |  |  |  |  |  |
| RER            | Relative error ratio  |  |  |  |  |  |
| RL             | Reporting Limit or Requested Limit (Radiochemistry)   |  |  |  |  |  |
| RPD            | Relative Percent Difference, a measure of the relative difference between two points                        |  |  |  |  |  |
| TEF            | Toxicity Equivalent Factor (Dioxin)   |  |  |  |  |  |
| TEQ            | Toxicity Equivalent Quotient (Dioxin)   |  |  |  |  |  |

# **Certification Summary**

Client: Clayton County Recycling

Project/Site: 020416 AM

TestAmerica Job ID: 310-73988-1

### Laboratory: TestAmerica Cedar Falls

Unless otherwise noted, all analytes for this laboratory were covered under each certification below.

| uthority               | Program                   |                          | EPA Region            | Certification ID   | Expiration Date |
|------------------------|---------------------------|--------------------------|-----------------------|--------------------|-----------------|
| owa                    | State Prog                | gram                     | 7                     | 007                | 12-01-15 *      |
| The following analytes | are included in this repo | rt, but certification is | not offered by the go | verning authority: |                 |
| Analysis Method        | Prep Method               | Matrix                   | Analyt                | е                  |                 |
|                        | 3510C                     | Solid                    | PCB-1                 | 000                |                 |
| 8082A                  | 33100                     | Solid                    | FCB-1                 | 208                |                 |
| 8082A<br>8082A         | 3550B                     | Solid                    | PCB-1                 |                    |                 |

### Laboratory: TestAmerica Nashville

The certifications listed below are applicable to this report.

|   | Authority | Program       | EPA Region | Certification ID | Expiration Date |
|---|-----------|---------------|------------|------------------|-----------------|
| ı | lowa      | State Program | 7          | 131              | 04-01-16 *      |

\* Certification renewal pending - certification considered valid.

TestAmerica Cedar Falls

Page 9 of 16

2/23/2016

# **Method Summary**

Client: Clayton County Recycling

Project/Site: 020416 AM

TestAmerica Job ID: 310-73988-1

| Method  | Method Description                                     | Protocol | Laboratory |
|---------|--|----------|------------|
| 8082A   | Polychlorinated Biphenyls (PCBs) by Gas Chromatography | SW846    | TAL CF     |
| 6010C   | Metals (ICP)   | SW846    | TAL CF     |
| 7470A   | Mercury (CVAA)   | SW846    | TAL CF     |
| 9023    | Organic Halides, Extractable (EOX)                     | SW846    | TAL NSH    |
| 9045D   | pН   | SW846    | TAL CF     |
| D240-87 | Heat of Combustion                                     | ASTM     | TAL NSH    |
| D92     | Flashpoint   | ASTM     | TAL CF     |

### **Protocol References:**

ASTM = ASTM International

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

### Laboratory References:

TAL CF = TestAmerica Cedar Falls, 704 Enterprise Drive, Cedar Falls, IA 50613, TEL (319)277-2401
TAL NSH = TestAmerica Nashville, 2960 Foster Creighton Drive, Nashville, TN 37204, TEL (615)726-0177

9





# Cooler/Sample Receipt and Temperature Log Form

| Client Information  |  |
|---|--|
| client: Clauton County Recu   | China  |
| City/State: Munmay )A   | Project:   |
| Receipt Information   | STATE OF THE STATE |
| Date/Time Received: 2/9/16 8:5  | D Received By: AM  |
| Delivery Type: DUPS FedEx   | FedEx Ground US Mail Spoo See  |
| TA Courier TA Field Servi   | 1 3000-1)pa  |
| Condition of Cooler/Containers  |  |
| Sample(s) received in Cooler? Yes XN  | 。<br>1. 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1  |
| Multiple Coolers? Yes XN  | o lfyes: Cooler#of   |
| Cooler Custody Seals Present? Yes XN  | o If yes: Cooler custody seals intact? Yes No  |
| Sample Custody Seals Present?    Yes X N  |  |
| Trip Blank Present? Yes N   |  |
|   |  |
| Temperature Record  | THE PROPERTY OF THE PROPERTY OF THE PARTY OF |
| Coolant: Wetice Blueice D   | ry ice Other: NONE   |
| Temperature Blank? Yes You II   | D & Bottle Type:   |
|   | no, specify sample ID(s) and bottle type used to take measurement.   |
| Thermometer ID:   | Correction Factor (°C):  |
| Uncorrected Temp (°C):  | Corrected Temp (°C):   |
| Exceptions Noted 1  | ETAIL OF THE SECTION AS A SECTION OF THE SECTION OF |
| <ol> <li>If temperature exceeds criteria, was sample(s</li> <li>a) If yes: Is there evidence that the chilling p</li> </ol> | process began? Yes No  |
| target a diging achief proveril elegised portless.)   | Land 110   |
| Note: If yes, contact PM before proceeding. If no, proc   | eed with login   |
| Additional Comments   | 3. 在1500 年 1500 年 1500 日 1500 日 1500 日 1500 日 1500 日 1500 日 1500 日 1500 日 1500 日 1500 日 1500 日 1500 日 1500 日 1   |
|   |  |
|   |  |
|   |  |
|   |  |

Document: CF-LG-WI-002 Revision: 21

Date: 7/28/2015

Page 11 of 16 TestAmerica-Cedar Falls

General temperature criteria is 0 to 2/23/2016 Bacteria temperature criteria is 0 to 2/23/2016

& ceryecucling, com Send QC with report Time SHURSAM XB7 Email Results TAT brabrieta (Ibesite liso tauM) TAT HRUS Phone: 319 - 2// - 24U1 Or 1 - 8UU - /5U - 24U1 Hildadoog Analyze For. 2100 gena X Fax: 319 - 277 - 2425 Time | Relinquished by Proj. Mgr. Telephone: Shipped Via: Project Manager: 4735 Project Number. Proj. Mgr. Email: Project Name: 210+30 录 Your PO #: TA Quote #: Invoice To: Laboratory Comments IIO 109 Date Matrix Studge Drinking Water NOTES Nastewater Fax: 5203-539 Groundwater Ofher (Specify) Yone (Black & White Label) H2SO4 Glass (Yellow & White Label) Preservative NOTICE: Pre-Arrangements must be made AT LEAST 48 Hours in ADVANCE to receive results H3SO, Piastic (Yellow & White Label) Temperature Upon Receipt: with RUSH turn around time commitments; additional charges may be assessed. (Orange & White Label) HCI (Blue & White Label) NOTE: There may be a charge assessed for TestAmerica disposing of sample remainders.

Refinquished by:

Date

Time | Received by: HIO2 (Red & White Label) NOTE: All turn around times are calculated from the time of receipt at TestAmerica Comments: Field Filtered Composite Cedar Falls, IA 50613 704 Enterprise Drive Cedar Falls Division and Tirne # of containers shipped 3000 5(03-539 2-9-110 Time Sampled Date 1100 Date Sampled (Signature) Company: Address: City/State/Zip Code: Sampled by: (Print Name) Send Report To: Telephone Number: 0 Shipped Via: Received for TestAmerica by Relinquished by: Sample ID Page 12 of 16 2/23/2016





310-73988 Chain of Custody

# THE LEADER IN ENVIRONMENTAL TESTING Nashville, TN

# COOLER RECEIPT FORM

| Cooler Received/Opened On 2-12-16 of e935   |   |
|---|---|
| Time Samples Removed From Cooler Time Samples Placed In Storage   | (2 Hour Win   |
| 1. Tracking # (last 4 digits, FedEx) Courier: FedEx   |   |
| IR Gun ID - 18290455 pH Strip Lot 10234612 Chlorine Strip Lot 072815A   |   |
| 2. Temperature of rep. sample or temp blank when opened: D. 8 Degrees Celsius   |   |
| 3. If Item #2 temperature is 0°C or less, was the representative sample or temp blank froze   | en? YES NONA  |
| 4. Were custody seals on outside of cooler?   | YESNONA   |
| If yes, how many and where:   |   |
| 5. Were the seals intact, signed, and dated correctly?  | YESNO. MA   |
| 6. Were custody papers inside cooler?   | YES NONA  |
| I certify that I opened the cooler and answered questions 1-6 (Intial)  |   |
| 7. Were custody seals on containers: YES (10) and Intact  | YES,NO  |
| Were these signed and dated correctly?  | YESNO.  |
| 8. Packing mat'l used? Bubblewrap Plastic bag Peanuts Vermiculite Foam Insert Pa  | per Other None  |
| 9. Cooling process: ( Ce lice-pack lice (direct contact) Dry  | Ice Other None  |
|   |   |
| 10. Did all containers arrive in good condition (unbroken)?   | TES)NONA  |
| <ul><li>10. Did all containers arrive in good condition (unbroken)?</li><li>11. Were all container labels complete (#, date, signed, pres., etc)?</li></ul>   | ESNONA  |
|   |   |
| 11. Were all container labels complete (#, date, signed, pres., etc)?   | ESNONA  |
| <ul><li>11. Were all container labels complete (#, date, signed, pres., etc)?</li><li>12. Did all container labels and tags agree with custody papers?</li></ul>  | (E3NONA   |
| <ul><li>11. Were all container labels complete (#, date, signed, pres., etc)?</li><li>12. Did all container labels and tags agree with custody papers?</li><li>13a. Were VOA vials received?</li></ul>  | YESNONA YESNONA YESNONA   |
| <ul> <li>11. Were all container labels complete (#, date, signed, pres., etc)?</li> <li>12. Did all container labels and tags agree with custody papers?</li> <li>13a. Were VOA vials received?</li> <li>b. Was there any observable headspace present in any VOA vial?</li> </ul>  | YESNONA YESNONA YESNONA   |
| <ul> <li>11. Were all container labels complete (#, date, signed, pres., etc)?</li> <li>12. Did all container labels and tags agree with custody papers?</li> <li>13a. Were VOA vials received?</li> <li>b. Was there any observable headspace present in any VOA vial?</li> <li>14. Was there a Trip Blank in this cooler? YESNO.</li> </ul>   | YESNONA YESNONA YESNONA   |
| <ul> <li>11. Were all container labels complete (#, date, signed, pres., etc)?</li> <li>12. Did all container labels and tags agree with custody papers?</li> <li>13a. Were VOA vials received?</li> <li>b. Was there any observable headspace present in any VOA vial?</li> <li>14. Was there a Trip Blank in this cooler? YESNO.</li> <li>14. If multiple coolers, sequil dertify that I unloaded the cooler and answered questions 7-14 (intial)</li> </ul>  | YESNONA YESNONA YESNONA   |
| <ol> <li>Were all container labels complete (#, date, signed, pres., etc)?</li> <li>Did all container labels and tags agree with custody papers?</li> <li>Were VOA vials received?</li> <li>Was there any observable headspace present in any VOA vial?</li> <li>Was there a Trip Blank in this cooler? YESNO.</li> <li>If multiple coolers, sequincerify that I unloaded the cooler and answered questions 7-14 (initial)</li> <li>On pres'd bottles, did pH test strips suggest preservation reached the correct pH levels.</li> <li>Did the bottle labels indicate that the correct preservatives were used</li> </ol>   | YESNONA YESNONA YESNONA PERCE #   |
| <ul> <li>11. Were all container labels complete (#, date, signed, pres., etc)?</li> <li>12. Did all container labels and tags agree with custody papers?</li> <li>13a. Were VOA vials received?</li> <li>b. Was there any observable headspace present in any VOA vial?</li> <li>14. Was there a Trip Blank in this cooler? YESNO. (ID) If multiple coolers, saquit dertify that I unloaded the cooler and answered questions 7-14 (initial)</li> <li>15a. On pres'd bottles, did pH test strips suggest preservation reached the correct pH level b. Did the bottle labels indicate that the correct preservatives were used</li> <li>16. Was residual chiorine present?</li> </ul>  | PESNONA YESNONA YESNONA YESNONA YESNONA YESNONA YESNONA                 |
| <ul> <li>11. Were all container labels complete (#, date, signed, pres., etc)?</li> <li>12. Did all container labels and tags agree with custody papers?</li> <li>13a. Were VOA vials received?</li> <li>b. Was there any observable headspace present in any VOA vial?</li> <li>14. Was there a Trip Blank in this cooler? YESNO. If multiple coolers, sequing the coolers of the cooler and answered questions 7-14 (initial)</li> <li>15a. On pres'd bottles, did pH test strips suggest preservation reached the correct pH levels. Did the bottle labels indicate that the correct preservatives were used</li> <li>16. Was residual chiorine present?</li> <li>I certify that I checked for chiorine and pH as per SOP and answered questions 15-16 (initial)</li> </ul>  | PESNONA YESNONA YESNONA YESNONA YESNONA YESNONA YESNONA                 |
| <ol> <li>Were all container labels complete (#, date, signed, pres., etc)?</li> <li>Did all container labels and tags agree with custody papers?</li> <li>Were VOA vials received?         <ul> <li>Was there any observable headspace present in any VOA vial?</li> </ul> </li> <li>Was there a Trip Blank in this cooler? YESNO. If multiple coolers, saquifertify that I unloaded the cooler and answered questions 7-14 (initial)</li> <li>On pres'd bottles, did pH test strips suggest preservation reached the correct pH level. Did the bottle labels indicate that the correct preservatives were used</li> <li>Was residual chlorine present?</li> <li>Certify that I checked for chlorine and pH as per SOP and answered questions 15-16 (initial)</li> <li>Were custody papers properly filled out (lnk, signed, etc)?</li> </ol>   | ence #  |
| 11. Were all container labels complete (#, date, signed, pres., etc)?  12. Did all container labels and tags agree with custody papers?  13a. Were VOA vials received?  b. Was there any observable headspace present in any VOA vial?  14. Was there a Trip Blank in this cooler? YESNO. If multiple coolers, saquit dertify that I unloaded the cooler and answered questions 7-14 (initial)  15a. On pres'd bottles, did pH test strips suggest preservation reached the correct pH level. Did the bottle labels indicate that the correct preservatives were used  16. Was residual chlorine present?  I certify that I checked for chlorine and pH as per SOP and answered questions 15-16 (initial).  17. Were custody papers properly filled out (ink, signed, etc)?  18. Did you sign the custody papers in the appropriate place?  | PESNONA YESNONA YESNONA YESNONA YESNONA YESNONA YESNONA                 |
| 11. Were all container labels complete (#, date, signed, pres., etc)?  12. Did all container labels and tags agree with custody papers?  13a. Were VOA vials received?  b. Was there any observable headspace present in any VOA vial?  14. Was there a Trip Blank in this cooler? YESNO. If multiple coolers, saquifertify that I unloaded the cooler and answered questions 7-14 (intial)  15a. On pres'd bottles, did pH test strips suggest preservation reached the correct pH level. Did the bottle labels indicate that the correct preservatives were used  16. Was residual chlorine present?  I certify that I checked for chlorine and pH as per SOP and answered questions 15-16 (intial).  17. Were custody papers properly filled out (link, signed, etc)?  18. Did you sign the custody papers in the appropriate place?  19. Were correct containers used for the analysis requested? | PESNONA YESNONA YESNONA YESNONA YESNONA YESNONA YESNONA YESNONA         |
| <ol> <li>Were all container labels complete (#, date, signed, pres., etc)?</li> <li>Did all container labels and tags agree with custody papers?</li> <li>Were VOA vials received?</li> <li>Was there any observable headspace present in any VOA vial?</li> <li>Was there a Trip Blank in this cooler? YESNO. If multiple coolers, sequincertify that I unloaded the cooler and answered questions 7-14 (initial)</li> <li>On pres'd bottles, did pH test strips suggest preservation reached the correct pH levels. Did the bottle labels indicate that the correct preservatives were used</li> </ol>  | PESNONA YESNONA YESNONA YESNONA YESNONA YESNONA YESNONA YESNONA YESNONA |

om:

Brown, Shali

Loc: 310 73988

ent:

Wednesday, February 10, 2016 5:34 PM

**)**:

Facciani, Melene; Jeffrey Lambert

ıbject: Clayton County Samples Workshare from Cedar Falls to Nashville

illo,

e following can ship Thursday to Nashville for Friday delivery. One container each job.

ou are still having issues printing the sub COC's then you can just include this email with the samples so login knows to scan them ar at the jobs are.

| 0-<br>977<br>983<br>988<br>990<br>991<br>993 | 310 - | 73977<br>23<br>28<br>50 |
|--|-------|-------------------------|
| anks,<br>ali                                 |       | 91<br>93                |

Read by: MINSI TAN 212.160 0935

D.Bc

### Login Sample Receipt Checklist

Client: Clayton County Recycling

Job Number: 310-73988-1

Login Number: 73988

List Number: 1

Creator: Leitz, Gemma H

List Source: TestAmerica Cedar Falls

| Question  | Answer | Comment |
|---|--------|---------|
| Radioactivity wasn't checked or is = background as measured by a survey meter.</td <td>N/A</td> <td></td> | N/A    |         |
| The cooler's custody seal, if present, is intact.   | N/A    |         |
| Sample custody seals, if present, are intact.   | N/A    |         |
| The cooler or samples do not appear to have been compromised or tampered with.                            | True   |         |
| Samples were received on ice.   | True   |         |
| Cooler Temperature is acceptable.   | True   |         |
| Cooler Temperature is recorded.   | True   |         |
| COC is present.   | True   |         |
| COC is filled out in ink and legible.   | True   |         |
| COC is filled out with all pertinent information.   | True   |         |
| Is the Field Sampler's name present on COC?   | True   |         |
| There are no discrepancies between the containers received and the COC.                                   | True   |         |
| Samples are received within Holding Time (excluding tests with immediate HTs)                             | True   |         |
| Sample containers have legible labels.  | True   |         |
| Containers are not broken or leaking.   | True   |         |
| Sample collection date/times are provided.  | True   |         |
| Appropriate sample containers are used.   | True   |         |
| Sample bottles are completely filled.   | True   |         |
| Sample Preservation Verified.   | True   |         |
| There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs                          | True   |         |
| Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").                           | True   |         |
| Multiphasic samples are not present.  | True   |         |
| Samples do not require splitting or compositing.  | True   |         |
| Residual Chlorine Checked.  | N/A    |         |

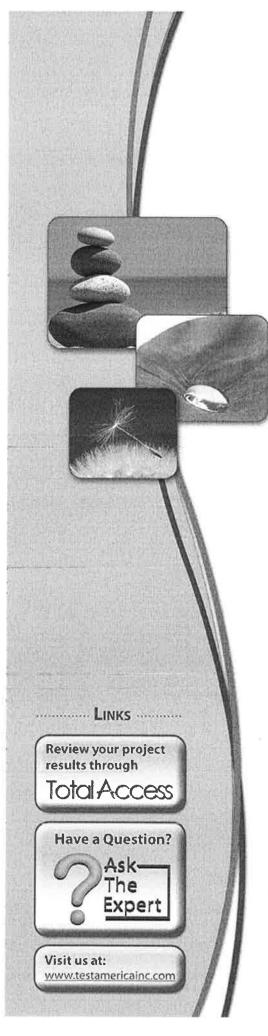
# **Login Sample Receipt Checklist**

Client: Clayton County Recycling

Job Number: 310-73988-1

Login Number: 73988 List Number: 2 Creator: McBride, Mike List Source: TestAmerica Nashville List Creation: 02/15/16 04:14 PM

| Question   | Answer | Comment |
|--|--------|---------|
| Radioactivity wasn't checked or is = background as measured by a survey meter.</td <td>True</td> <td></td> | True   |         |
| The cooler's custody seal, if present, is intact.  | N/A    |         |
| Sample custody seals, if present, are intact.  | N/A    |         |
| The cooler or samples do not appear to have been compromised or tampered with.                             | True   |         |
| Samples were received on ice.  | True   |         |
| Cooler Temperature is acceptable.  | True   |         |
| Cooler Temperature is recorded.  | True   |         |
| COC is present.  | True   |         |
| COC is filled out in ink and legible.  | True   |         |
| COC is filled out with all pertinent information.  | True   |         |
| Is the Field Sampler's name present on COC?  | True   |         |
| There are no discrepancies between the containers received and the COC.                                    | True   |         |
| Samples are received within Holding Time (excluding tests with immediate HTs)                              | True   |         |
| Sample containers have legible labels.   | True   |         |
| Containers are not broken or leaking.  | True   |         |
| Sample collection date/times are provided.   | True   |         |
| Appropriate sample containers are used.  | True   |         |
| Sample bottles are completely filled.  | True   |         |
| Sample Preservation Verified.  | N/A    |         |
| There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs                           | True   |         |
| Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").                            | True   |         |
| Multiphasic samples are not present.   | True   |         |
| Samples do not require splitting or compositing.   | True   |         |
| Residual Chlorine Checked.   | N/A    |         |



# **TestAmerica**

THE LEADER IN ENVIRONMENTAL TESTING

# **ANALYTICAL REPORT**

TestAmerica Laboratories, Inc. TestAmerica Cedar Falls 704 Enterprise Drive Cedar Falls, IA 50613 Tel: (319)277-2401

TestAmerica Job ID: 310-73983-1 Client Project/Site: 020316 PM

For: Clayton County Recycling 11645 Echo Avenue PO BOX 861 Monona, Iowa 52159

Attn: Gina Roys

Authorized for release by: 2/23/2016 12:13:45 PM

Shali Brown, Project Manager II (615)301-5031 shali.brown@testamericainc.com

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

# ica 300 ib. 310-73903-1

# **Table of Contents**

| cover Page            | 1   |
|-----------------------|-----|
| able of Contents      |     |
| ase Narrative         |     |
| ample Summary         | 1   |
| Slient Sample Results | 5   |
| Phronicle             | 7   |
| Definitions           | 3   |
| ertification Summary  | )   |
| lethod Summary        | 1 C |
| hain of Custody       | 11  |
|                       | 15  |

### **Case Narrative**

Client: Clayton County Recycling

Project/Site: 020316 PM

TestAmerica Job ID: 310-73983-1

Job ID: 310-73983-1

Laboratory: TestAmerica Cedar Falls

Narrative

Job Narrative 310-73983-1

#### Comments

No additional comments.

#### Receipt

The sample was received on 2/9/2016 8:50 AM; the sample arrived in good condition, properly preserved and, where required, on ice.

#### Except

Sample was received at the laboratory outside the required temperature criteria and without a collection time listed on the chain of custody.

### GC Semi VOA

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

#### Metals

Method(s) 200.7 Rev 4.4, 6010C: The following sample was diluted due to the presence of an interferent: 020316 PM (310-73983-1). Elevated reporting limits (RLs) are provided.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

### **General Chemistry**

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

### **Organic Prep**

Method(s) 1311: EPA Method 1311 requires the room temperature to be maintained at 23 +/- 2 degrees Celsius for the duration of the leaching process. For batch 117321, the temperature 17.9-20.9 was outside of this range.

Method(s) 3550B: The following sample was prepared with less sample due to the nature of the sample matrix: 020316 PM (310-73983-1). Elevated reporting limits (RLs) are provided.

Method(s) 1311: EPA Method 1311 requires the room temperature to be maintained at 23 +/- 2 degrees Celsius for the duration of the leaching process. For batch 117897, the temperature 18.2-21.0 was outside of this range.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

# **Sample Summary**

Client: Clayton County Recycling Project/Site: 020316 PM

TestAmerica Job ID: 310-73983-1

| Lab Sample ID | Client Sample ID | Matrix | Collected Receiv          | ed    |
|---------------|------------------|--------|---------------------------|-------|
| 310-73983-1   | 020316 PM        | Solid  | 02/03/16 00:00 02/09/16 ( | 08:50 |

# **Client Sample Results**

Client: Clayton County Recycling

Project/Site: 020316 PM

TestAmerica Job ID: 310-73983-1

Client Sample ID: 020316 PM

Client Sample ID: 020316 PM

Date Collected: 02/03/16 00:00

Date Received: 02/09/16 08:50

Date Collected: 02/03/16 00:00 Date Received: 02/09/16 08:50 Lab Sample ID: 310-73983-1

Matrix: Solid

| Analyte                              | Result     | Qualifier | RL      | MDL | Unit      | D | Prepared       | Analyzed       | Dil Fac |
|--------------------------------------|------------|-----------|---------|-----|-----------|---|----------------|----------------|---------|
| PCB-1016                             | <10.7      |           | 10.7    |     | ug/L      |   | 02/18/16 13:24 | 02/22/16 11:27 |         |
| PCB-1221                             | <10.7      |           | 10.7    |     | ug/L      |   | 02/18/16 13:24 | 02/22/16 11:27 | 7       |
| PCB-1232                             | <10.7      |           | 10.7    |     | ug/L      |   | 02/18/16 13:24 | 02/22/16 11:27 | 1       |
| PCB-1242                             | <10.7      |           | 10.7    |     | ug/L      |   | 02/18/16 13:24 | 02/22/16 11:27 | 1       |
| PCB-1248                             | <10.7      |           | 10.7    |     | ug/L      |   | 02/18/16 13:24 | 02/22/16 11:27 | 1       |
| PCB-1254                             | <10.7      |           | 10.7    |     | ug/L      |   | 02/18/16 13:24 | 02/22/16 11:27 | 1       |
| PCB-1260                             | <10.7      |           | 10.7    |     | ug/L      |   | 02/18/16 13:24 | 02/22/16 11:27 | 1       |
| PCB-1268                             | <10.7      |           | 10.7    |     | ug/L      |   | 02/18/16 13:24 | 02/22/16 11:27 | 1       |
| Polychlorinated biphenyls, Total     | <10.7      |           | 10.7    |     | ug/L      |   | 02/18/16 13:24 | 02/22/16 11:27 | 1       |
| Surrogate                            | %Recovery  | Qualifier | Limits  |     |           |   | Prepared       | Analyzed       | Dil Fac |
| DCB Decachlorobiphenyl (Surr)        | 30         |           | 10-110  |     |           |   | 02/18/16 13:24 | 02/22/16 11:27 | 1       |
| Tetrachloro-m-xylene                 | 48         |           | 10-110  |     |           |   | 02/18/16 13:24 | 02/22/16 11:27 | 1       |
| Method: 6010C - Metals (ICP) Analyte |            | Qualifier | RL      | MDL | Unit      | D | Prepared       | Analyzed       | Dil Fac |
| Arsenic                              | < 0.900    |           | 0.900   |     | mg/L      |   | 02/11/16 10:11 |                | 3       |
| Barium                               | <1.50      |           | 1.50    |     | mg/L      |   | 02/11/16 10:11 |                | 3       |
| Cadmium                              | <0.0600    |           | 0.0600  |     | mg/L      |   | 02/11/16 10:11 | 02/11/16 20:51 | 3       |
| Chromium                             | < 0.0600   |           | 0.0600  |     | mg/L      |   | 02/11/16 10:11 | 02/11/16 20:51 | 3       |
| Lead                                 | < 0.300    |           | 0.300   |     | mg/L      |   | 02/11/16 10:11 | 02/11/16 20:51 | 3       |
| Selenium                             | <0.450     |           | 0.450   |     | mg/L      |   | 02/11/16 10:11 | 02/11/16 20:51 | 3       |
| Silver                               | <0.0600    |           | 0.0600  |     | mg/L      |   | 02/11/16 10:11 | 02/11/16 20:51 | 3       |
| Method: 7470A - Mercury (CV.         | AA) - TCLP |           |         |     |           |   |                |                |         |
| Analyte                              | Result     | Qualifier | RL      | MDL | Unit      | D | Prepared       | Analyzed       | Dil Fac |
| Mercury                              | <0.00200   |           | 0.00200 |     | mg/L      |   | 02/15/16 10:08 | 02/16/16 13:07 | 1       |
| General Chemistry                    |            |           |         |     |           |   |                |                |         |
| Analyte                              | Result     | Qualifier | RL      | RL  | Unit      | D | Prepared       | Analyzed       | Dil Fac |
| BTU                                  | 6510       |           | 200     |     | BTU/lb    |   |                | 02/18/16 09:35 | 1       |
| Flashpoint                           | >215       |           | 40.0    |     | Degrees F |   |                | 02/17/16 15:47 | 1       |
| General Chemistry - Soluble          |            |           |         |     |           |   |                |                |         |
| Analyte                              |            | Qualifier | RL      | RL  | Unit      | D | Prepared       | Analyzed       | Dil Fac |
| рН                                   | 8.47       |           | 0.100   |     | SU        |   |                | 02/10/16 14:45 | 1       |

| Analyte  | Result | Qualifier | RL    | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|----------|--------|-----------|-------|-----|-------|---|----------------|----------------|---------|
| PCB-1016 | <0.262 | ,         | 0.262 |     | mg/Kg | ₿ | 02/09/16 14:23 | 02/19/16 12:22 | 1       |
| PCB-1221 | <0.262 |           | 0.262 |     | mg/Kg | ¤ | 02/09/16 14:23 | 02/19/16 12:22 | 1       |
| PCB-1232 | <0.262 |           | 0.262 |     | mg/Kg | ₩ | 02/09/16 14:23 | 02/19/16 12:22 | 1       |
| PCB-1242 | <0.262 |           | 0.262 |     | mg/Kg | ₩ | 02/09/16 14:23 | 02/19/16 12:22 | 1       |
| PCB-1248 | <0.262 |           | 0.262 |     | mg/Kg | ☆ | 02/09/16 14:23 | 02/19/16 12:22 | 1       |
| PCB-1254 | <0.262 |           | 0.262 |     | mg/Kg | ₽ | 02/09/16 14:23 | 02/19/16 12:22 | 1       |
| PCB-1260 | <0.262 |           | 0.262 |     | mg/Kg | ⇔ | 02/09/16 14:23 | 02/19/16 12:22 | 1       |
| PCB-1268 | <0.262 |           | 0.262 |     | mg/Kg | ₽ | 02/09/16 14:23 | 02/19/16 12:22 | 1       |

TestAmerica Cedar Falls

Lab Sample ID: 310-73983-1

Matrix: Solid

Percent Solids: 84.6

# **Client Sample Results**

Client: Clayton County Recycling

Project/Site: 020316 PM

TestAmerica Job ID: 310-73983-1

Client Sample ID: 020316 PM

Date Collected: 02/03/16 00:00 Date Received: 02/09/16 08:50

Halogens, Extractable Organic

Lab Sample ID: 310-73983-1

© 02/16/16 10:30 02/17/16 11:16

Matrix: Solid

Percent Solids: 84.6

| Surrogate  DCB Decachlorobiphenyl (Surr) | %Recovery Qualifier | <b>Limits</b> |          | <b>Prepared</b> 02/09/16 14:23 | <b>Analyzed</b> 02/19/16 12:22 | Dil Fac |
|--|---------------------|---------------|----------|--------------------------------|--------------------------------|---------|
| Tetrachloro-m-xylene                     | 59                  | 10-110        |          | 02/09/16 14:23                 | 02/19/16 12:22                 | 1       |
| General Chemistry<br>Analyte             | Result Qualifier    | RL            | MDL Unit | D Prepared                     | Analyzed                       | Dil Fac |

61.0

mg/Kg

1330

5

### Lab Chronicle

Client: Clayton County Recycling

Project/Site: 020316 PM

TestAmerica Job ID: 310-73983-1

Client Sample ID: 020316 PM

Date Collected: 02/03/16 00:00 Date Received: 02/09/16 08:50 Lab Sample ID: 310-73983-1

Matrix: Solid

|           | Batch    | Batch    |     | Dilution | Batch  | Prepared       |         |         |
|-----------|----------|----------|-----|----------|--------|----------------|---------|---------|
| Prep Type | Type     | Method   | Run | Factor   | Number | or Analyzed    | Analyst | Lab     |
| TCLP      | Leach    | 1311     |     |          | 117897 | 02/17/16 17:28 | CK1     | TAL CF  |
| TCLP      | Prep     | 3510C    |     |          | 118011 | 02/18/16 13:24 | DLK     | TAL CF  |
| TCLP      | Analysis | 8082A    |     | 1        | 118263 | 02/22/16 11:27 | BKT     | TAL CF  |
| TCLP      | Leach    | 1311     |     |          | 117321 | 02/10/16 14:43 | CK1     | TAL CF  |
| TCLP      | Prep     | 3010A    |     |          | 117368 | 02/11/16 10:11 | JNR     | TAL CF  |
| TCLP      | Analysis | 6010C    |     | 3        | 117440 | 02/11/16 20:51 | OAD     | TAL CF  |
| TCLP      | Leach    | 1311     |     |          | 117321 | 02/10/16 14:43 | CK1     | TAL CF  |
| TCLP      | Prep     | 7470A    |     |          | 117557 | 02/15/16 10:08 | SAD     | TAL CF  |
| TCLP      | Analysis | 7470A    |     | 1        | 117766 | 02/16/16 13:07 | SAD     | TAL CF  |
| Soluble   | Leach    | DI Leach |     |          | 117316 | 02/10/16 13:00 | SAS     | TAL CF  |
| Soluble   | Analysis | 9045D    |     | 1        | 117317 | 02/10/16 14:45 | SAS     | TAL CF  |
| Total/NA  | Analysis | D240-87  |     | 1        | 318243 | 02/18/16 09:35 | JAB     | TAL NSH |
| Total/NA  | Analysis | D92      |     | 1        | 117888 | 02/17/16 15:47 | JCF     | TAL CF  |

Client Sample ID: 020316 PM

Date Collected: 02/03/16 00:00 Date Received: 02/09/16 08:50 Lab Sample ID: 310-73983-1

Matrix: Solid Percent Solids: 84.6

|           | Batch    | Batch  |     | Dilution | Batch  | Prepared       |         |         |
|-----------|----------|--------|-----|----------|--------|----------------|---------|---------|
| Prep Type | Type     | Method | Run | Factor   | Number | or Analyzed    | Analyst | Lab     |
| Total/NA  | Prep     | 3550B  |     |          | 117225 | 02/09/16 14:23 | QRA     | TAL CF  |
| Total/NA  | Analysis | 8082A  |     | 1        | 118124 | 02/19/16 12:22 | BKT     | TAL CF  |
| Total/NA  | Prep     | 9023   |     |          | 317743 | 02/16/16 10:30 | ADN     | TAL NSH |
| Total/NA  | Analysis | 9023   |     | 1        | 317752 | 02/17/16 11:16 | CLJ     | TAL NSH |

### Laboratory References:

TAL CF = TestAmerica Cedar Falls, 704 Enterprise Drive, Cedar Falls, IA 50613, TEL (319)277-2401
TAL NSH = TestAmerica Nashville, 2960 Foster Creighton Drive, Nashville, TN 37204, TEL (615)726-0177

# **Definitions/Glossary**

Client: Clayton County Recycling Project/Site: 020316 PM

TestAmerica Job ID: 310-73983-1

# Glossary

| Abbreviation   | These commonly used abbreviations may or may not be present in this report.                                 |
|----------------|---|
| 3              | Listed under the "D" column to designate that the result is reported on a dry weight basis                  |
| %R             | Percent Recovery  |
| CFL            | Contains Free Liquid  |
| CNF            | Contains no Free Liquid   |
| DER            | Duplicate error ratio (normalized absolute difference)  |
| Dil Fac        | Dilution Factor   |
| DL, RA, RE, IN | Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample |
| DLC            | Decision level concentration  |
| MDA            | Minimum detectable activity   |
| EDL            | Estimated Detection Limit   |
| MDC            | Minimum detectable concentration  |
| MDL            | Method Detection Limit  |
| ИL             | Minimum Level (Dioxin)  |
| VC .           | Not Calculated  |
| ND             | Not detected at the reporting limit (or MDL or EDL if shown)  |
| PQL            | Practical Quantitation Limit  |
| 3C             | Quality Control   |
| RER            | Relative error ratio  |
| ₹L             | Reporting Limit or Requested Limit (Radiochemistry)   |
| RPD            | Relative Percent Difference, a measure of the relative difference between two points                        |
| TEF            | Toxicity Equivalent Factor (Dioxin)   |
| ΓEQ            | Toxicity Equivalent Quotient (Dioxin)   |

# **Certification Summary**

Client: Clayton County Recycling

Project/Site: 020316 PM

TestAmerica Job ID: 310-73983-1

### Laboratory: TestAmerica Cedar Falls

Unless otherwise noted, all analytes for this laboratory were covered under each certification below.

| uthority               | Program                   |                          | EPA Region             | Certification ID    | Expiration Date |
|------------------------|---------------------------|--------------------------|------------------------|---------------------|-----------------|
| owa                    | State Prog                | gram                     | 7                      | 007                 | 12-01-15 *      |
| The following analytes | are included in this repo | rt, but certification is | s not offered by the g | overning authority: |                 |
| Analysis Method        | Prep Method               | Matrix                   | Analyt                 | te                  |                 |
| 8082A                  | 3510C                     | Solid                    | PCB-1                  | 1268                |                 |
|                        | 3550B                     | Solid                    | PCB-1                  | 1268                |                 |
| 8082A                  | 00000                     | Cond                     |                        |                     |                 |

### Laboratory: TestAmerica Nashville

The certifications listed below are applicable to this report.

| Authority | Program       | <b>EPA Region</b> | Certification ID | Expiration Date |
|-----------|---------------|-------------------|------------------|-----------------|
| lowa      | State Program | 7                 | 131              | 04-01-16 *      |

\* Certification renewal pending - certification considered valid.

TestAmerica Cedar Falls

# **Method Summary**

Client: Clayton County Recycling

Project/Site: 020316 PM

TestAmerica Job ID: 310-73983-1

| Method  | Method Description                                     | Protocol | Laboratory |
|---------|--|----------|------------|
| 8082A   | Polychlorinated Biphenyls (PCBs) by Gas Chromatography | SW846    | TAL CF     |
| 6010C   | Metals (ICP)   | SW846    | TAL CF     |
| 7470A   | Mercury (CVAA)   | SW846    | TAL CF     |
| 9023    | Organic Halides, Extractable (EOX)                     | SW846    | TAL NSH    |
| 9045D   | pH   | SW846    | TAL CF     |
| D240-87 | Heat of Combustion                                     | ASTM     | TAL NSH    |
| D92     | Flashpoint   | ASTM     | TAL CF     |

### **Protocol References:**

ASTM = ASTM International

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

### Laboratory References:

TAL CF = TestAmerica Cedar Falls, 704 Enterprise Drive, Cedar Falls, IA 50613, TEL (319)277-2401
TAL NSH = TestAmerica Nashville, 2960 Foster Creighton Drive, Nashville, TN 37204, TEL (615)726-0177

TestAmerica Cedar Falls





310-73983 Chain of Custody

# Cooler/Sample Receipt and Temperature Log Form

| Client Information   | 等的是一种是有人是有一种的。   |
|--|--|
| client: Clayton County Rec   | ucline   |
| City/State: MONMAN )A  | Project:   |
| Receipt Information  | STATE OF THE PROPERTY OF THE P |
| Date/Time Received: 2/9/16 8:5   | D Received By: AM  |
| Delivery Type: DPS Fedax   | FedEx Ground US Mail Space Des   |
| ☐ TA Courier ☐ TA Field Ser  |  |
| Condition of Cooler/Containers   |  |
| Sample(s) received in Cooler? Yes  | No If yes: Cooler ID:  |
| Multiple Coolers?  | No If yes: Cooler #of  |
| Cooler Custody Seals Present? Yes  | No If yes: Cooler custody seals intact? Yes No   |
| Sample Custody Seals Present? Yes  | No If yes: Sample custody seals intact? Yes No   |
| Trip Blank Present? Yes  | No If yes: Which VOA samples are in cooler? ↓  |
|  |  |
|  | - 10   |
| Temperature Record   | Fig. 10 Committee to the Committee of th |
|  | Dry ice Other: X NOME  |
| Temperature Blank? Yes No  | Anone  |
| Note: If yes, use temp blank for measurement.  | ID & Bottle Type:  |
| Thermometer ID:  | If no, specify sample ID(s) and bottle type used to take measurement.  |
| Uncorrected Temp (°C);   | Correction Factor (°C):  |
| Exceptions Noted   | Corrected Temp (°C):   |
| The state of the s | 等的问题。在11年2月1日(11年)是12年1日在10年至11年1日日日本省社会   |
| 1) If temperature exceeds criteria, was sample   | (s) received same day of sampling?   |
| a) If yes: Is there evidence that the chilling   | g process began?   |
| 2) If temperature is <0°C, are there obvious sig   | ins that the integrity of sample containers is compromised?  |
| (e.g., paiging septer, proven cracked potties  | f) Li Yes Li No  |
| Note: If yes, contact PM before proceeding. If no, pro   | oceed with login   |
| Additional Comments  | 是一个人,但是一个人,但是一个人,但是一个人,但是一个人,他们也是一个人,但是一个人,他们也是一个人,他们也是一个人,他们也是一个人,他们也是一个人,他们也是一   |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |

Document: CF-LG-WI-002 Revision: 21

Oate: 7/28/2015

Page 11 of 16 TestAmerica-Cedar Falls General temperature criteria is 0 to 2/23/2016 8acteria temperature criteria is 0 to 2/23/2016 Ш

& carreagaling, com Send QC with report lime ax Results Email Results Date TAT brabneta (Ibseds list call ahead) Phone: 319-2//-2401 of 1-800-750-2403 DOUM YOUTPO# DANSIK Analyze For 211na Ocha X Fax: 319 - 277 - 2425 Time | Relinquished by: Proj. Mgr. Telephone: Shipped Via. Project Manager: 4735 Project Number; Proj. Mgr. Email: Project Name: 212490 TA Quote #: Invoice To: Laboratory Comments lio Hog Date Matrix appnis Drinking Water NOTES Fax 503-539 1915Wbnuoi@ Other (Specify) None (Black & White Label) 4204 Giass (Yellow & White Label) Preservative NOTICE: Pre-Arrangements must be made AT LEAST 48 Hours in ADVANCE to receive results 19504 Plastic (Yellow & White Label) Comments: Temperature Upon Receipt: with RUSH turn around time commitments; additional charges may be assessed. (leds.) HOBN HCI (Blue & White Label) NOTE: There may be a charge assessed for TestAmerica disposing of sample remainders.

| Date | Time | Received by: HUO3 (Red & White Label) NOTE: All furn around times are calculated from the time of receipt at TestAmerica. Field Filtered Cedar Falls, IA 50613 704 Enterprise Drive Cedar Falls Division DUIC Grab 8.00 Time badgirls sharistnop to # Button SCOOL S 2-9-10 5(03-53 Time Sampled 1109 Date Delqms2 stsQ Company: (Signature) Address: City/State/Zip Code: Sampled by: (Print Name) Send Report To: Telephone Number. ved for TestAmenca by Sample ID Page 12 of 16

2/23/2016



310-73983 Chain of Custody

# Nashville, TN COOLER RECEIPT FORM

| Cooler Received/Opened On 2.12.16 @ 0935  | 22.00            |
|---|------------------|
| Time Samples Removed From Cooler Time Samples Placed In Storage                             | 67 · 12 Hour Win |
| 1. Tracking # 727/ (last 4 digits, FedEx) Courier: FedEs                                    | (                |
| 7960357   HC559158<br> R Gun ID   |                  |
| 2. Temperature of rep. sample or temp blank when opened: D. B. Degrees Celsius              |                  |
| 3. If Item #2 temperature is 0°C or less, was the representative sample or temp blank froze | en? YES NONA     |
| 4. Were custody seals on outside of cooler?   | YES. NO. NA      |
| If yes, how many and where:   |                  |
| 5. Were the seals intact, signed, and dated correctly?                                      | YESNO. MA        |
| 6. Were custody papers Inside cooler?   | YES NONA         |
| I certify that I opened the cooler and answered questions 1-6 (intial)                      |                  |
| 7. Were custody seals on containers: YES (TD) and Intact                                    | YES.,NO          |
| Were these signed and dated correctly?  | YESNO.           |
| 8. Packing mat'l used? Bubblewrap Plastic bag Peanuts Vermiculite Foam Insert Pa            | per Other None   |
| 9. Cooling process: , (Ce) Ice-pack Ice (direct contact) Dry                                | ice Other None   |
| 10. Did all containers arrive in good condition (unbroken)?                                 | TES)NONA         |
| 11. Were all container labels complete (#, date, signed, pres., etc)?                       | ESNONA           |
| 12. Did all container labels and tags agree with custody papers?                            | ESNONA           |
| 13a. Were VOA vials received?   | YES NO.NA        |
| b. Was there any observable headspace present in any VOA vial?                              | YESNO NA         |
| 14. Was there a Trip Blank in this cooler? YESNO.   | ence #           |
| I dertify that I unloaded the cooler and answered questions 7-14 (Intial)                   | , man            |
| 15a. On pres'd bottles, did pH test strips suggest preservation reached the correct pH leve | 17 YESNO.NA      |
| b. Did the bottle labels indicate that the correct preservatives were used                  | YESNO.           |
| 16. Was residual chlorine present?  | YESNO(NA)        |
| Legetlify that I checked for chlorine and pH as per SOP and answered questions 15-16 (intia | 1) msm           |
| 17. Were custody papers properly filled out (ink, signed, etc)?                             | YESNONA          |
| 18. Did you sign the custody papers in the appropriate place?                               | ŒSNONA           |
| 19. Were correct containers used for the analysis requested?                                | ESNONA           |
| 20. Was sufficient amount of sample sent in each container?                                 | XES)NONA         |
| I certify that I entered this project into LIMS and answered questions 17-20 (intial)       | wom              |
| I certify that I attached a label with the unique LIMS number to each container (intial)    |                  |
| 21. Were there Non-Conformance issues at login? YES. Was a NCM generated? YES               | w)m              |

om:

Brown, Shali

∍nt:

Wednesday, February 10, 2016 5:34 PM

Loc: 310 73983

Facciani, Melene; Jeffrey Lambert

**)**:

abject: Clayton County Samples Workshare from Cedar Falls to Nashville

illo,

e following can ship Thursday to Nashville for Friday delivery. One container each job.

'ou are still having issues printing the sub COC's then you can just include this email with the samples so login knows to scan them ar at the jobs are.

| 0-<br>977<br>983<br>988 | 310 - | 73977<br>33    |
|-------------------------|-------|----------------|
| 990<br>991<br>993       |       | 95<br>90<br>91 |
| anks,<br>ali            |       | 93             |

Read by: MIN 3: TAN 212.160 0935

0.00

# **Login Sample Receipt Checklist**

Client: Clayton County Recycling

Job Number: 310-73983-1

List Source: TestAmerica Cedar Falls

Login Number: 73983 List Number: 1

Creator: Leitz, Gemma H

| Question  | Answer | Comment |
|---|--------|---------|
| Radioactivity wasn't checked or is = background as measured by a survey meter.</td <td>N/A</td> <td></td> | N/A    |         |
| The cooler's custody seal, if present, is intact.   | N/A    |         |
| Sample custody seals, if present, are intact.   | N/A    |         |
| The cooler or samples do not appear to have been compromised or tampered with.                            | True   |         |
| Samples were received on ice.   | True   |         |
| Cooler Temperature is acceptable.   | True   |         |
| Cooler Temperature is recorded.   | True   |         |
| COC is present.   | True   |         |
| COC is filled out in ink and legible.   | True   |         |
| COC is filled out with all pertinent information.   | True   |         |
| Is the Field Sampler's name present on COC?   | True   |         |
| There are no discrepancies between the containers received and the COC.                                   | True   |         |
| Samples are received within Holding Time (excluding tests with immediate HTs)                             | True   |         |
| Sample containers have legible labels.  | True   |         |
| Containers are not broken or leaking.   | True   |         |
| Sample collection date/times are provided.  | True   |         |
| Appropriate sample containers are used.   | True   |         |
| Sample bottles are completely filled.   | True   |         |
| Sample Preservation Verified.   | True   |         |
| There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs                          | True   |         |
| Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").                           | True   |         |
| Multiphasic samples are not present.  | True   |         |
| Samples do not require splitting or compositing.  | True   |         |
| Residual Chlorine Checked.  | N/A    |         |

# **Login Sample Receipt Checklist**

Client: Clayton County Recycling

Job Number: 310-73983-1

Login Number: 73983 List Number: 2

Creator: McBride, Mike

List Source: TestAmerica Nashville List Creation: 02/15/16 04:14 PM

| Question   | Answer | Comment |
|--|--------|---------|
| Radioactivity wasn't checked or is = background as measured by a survey meter.</td <td>True</td> <td></td> | True   |         |
| The cooler's custody seal, if present, is intact.  | N/A    |         |
| Sample custody seals, if present, are intact.  | N/A    |         |
| The cooler or samples do not appear to have been compromised or tampered with.                             | True   |         |
| Samples were received on ice.  | True   |         |
| Cooler Temperature is acceptable.  | True   |         |
| Cooler Temperature is recorded.  | True   |         |
| COC is present.  | True   |         |
| COC is filled out in ink and legible.  | True   |         |
| COC is filled out with all pertinent information.  | True   |         |
| Is the Field Sampler's name present on COC?  | True   |         |
| There are no discrepancies between the containers received and the COC.                                    | True   |         |
| Samples are received within Holding Time (excluding tests with immediate HTs)                              | True   |         |
| Sample containers have legible labels.   | True   |         |
| Containers are not broken or leaking.  | True   |         |
| Sample collection date/times are provided.   | True   |         |
| Appropriate sample containers are used.  | True   |         |
| Sample bottles are completely filled.  | True   |         |
| Sample Preservation Verified.  | N/A    |         |
| There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs                           | True   |         |
| Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").                            | True   |         |
| Multiphasic samples are not present.   | True   |         |
| Samples do not require splitting or compositing.   | True   |         |
| Residual Chlorine Checked.   | N/A    |         |



June 1, 2016

Clayton County Recycling 11645 Echo Avenue Monona, IA 52129-0607

Attn:

Ms. Gina Roys, Controller

Re:

Special Waste Approval Letter

Dear Ms. Roys:

We are pleased to advise that the special waste listed below was recertified on 05/31/16 for disposal at the Glacier Ridge Landfill. The attached profile is your documentation that verifies this waste stream is not a hazardous or unauthorized waste and also verifies approval to accept this waste stream by the Glacier Ridge Landfill as indicated by the signature of our approvals department and our general manager. The waste approval is valid as follows:

Generator:

Clayton County Recycling

Address of Waste Generated:

11645 Echo Avenue, Monona, IA 52129

Waste Stream:

Fluff, Shredded Auto Residue

Waste Category:

26A

Profile Number:

GRL 07027

**Profile Recertification Date:** 

08/23/16

Waste Disposal Method:

Direct

Please note the special conditions for acceptance are as follows:

- 1. Each load must have a manifest signed by an authorized representative or agent of Clayton County Recycling accompanying the waste for disposal.
- 2. Any change in process or waste stream voids this approval. New waste will need to be profiled, including new chemical analysis and or MSDS Sheets if applicable, and submitted for review and approval prior to acceptance.
- 3. All loads must be properly tarped and hauled by a licensed transporter.

We greatly appreciate the confidence and trust you have placed in selecting Glacier Ridge Landfill to manage your disposal needs. As an additional note, we have fulfilled all Wisconsin DNR regulations and our landfill meets or exceeds the design, construction, and operating standards promulgated under 40 CFR 258.

If you have questions or need assistance with additional waste disposal, please do not hesitate to contact us at (920) 387-0987.

Sincerely,

ADVANCED DISPOSAL SERVICES GLACIER RIDGE LANDFILL, LLC

Javne Fae Walter

Administrative Assistant

JFW/smr Attachment

 ${\bf Advanced Disposal.com}$ 



May 10, 2016

Clayton County Recycling 11645 Echo Avenue Monona, IA 52129-0607

Attn:

Ms. Gina Roys

Re: Special Waste Profile #GRI. 07027 - Disposal of Auto Shredder Fluff and Fines

Dear Ginu:

This letter is being submitted to notify you that the approval to dispose of the above-referenced waste needs to be recertified in order to continue shipping the waste to our facility. There are two alternatives for recertifying the information contained on the profile. If there have been any changes in the process generating the waste or materials used in the process, alternative number 1 must be used.

- Complete and sign the attached profile, noting any changes which have occurred in the process during the past year. Return the profile to my attention. Include with the profile copies of MSDSs for any new materials used in the process and any additional analysis that may have been performed on the waste.
- 2. If no changes have occurred in the process generating the waste complete the certification section below and return this letter to my attention, together with an updated analytical report for this material.

I have reviewed the process generating the waste and the information submitted to obtain the original disposal approval. Based on this review, I certify that no changes have occurred in the process generating the waste or the materials used in the process, and the information originally submitted continues to be representative of the waste.

Should you have any questions with regard to this matter, please feel free to contact me.

Sincerely,

ADVANCED DISPOSAL SERVICES GLACIER RIDGE LANDFILL, LLC

Jayne File Walter

Administrative Assistant

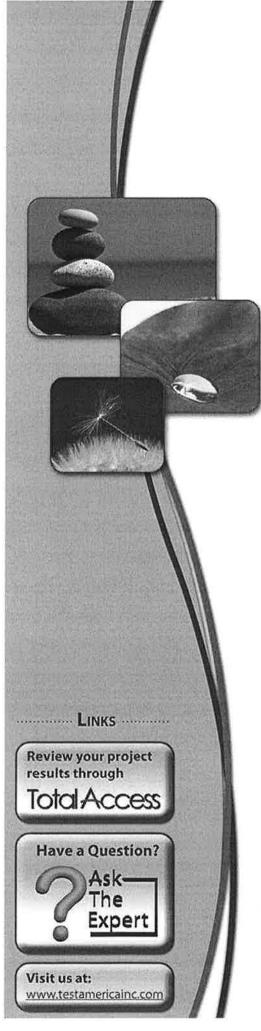
Printed Name

Enclosure

Signature and Date Approva

dfill Signature and Date

Recertification Date:



# **TestAmerica**

THE LEADER IN ENVIRONMENTAL TESTING

# **ANALYTICAL REPORT**

TestAmerica Laboratories, Inc. TestAmerica Cedar Falls 704 Enterprise Drive Cedar Falls, IA 50613 Tel: (319)277-2401

TestAmerica Job ID: 310-80721-1 Client Project/Site: 050916 PM

For: Clayton County Recycling 11645 Echo Avenue PO BOX 861 Monona, Iowa 52159

Attn: Gina Roys

Authorized for release by: 5/27/2016 11:49:48 AM

Shali Brown, Project Manager II (615)301-5031 shali.brown@testamericainc.com

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Client: Clayton County Recycling Project/Site: 050916 PM

# **Table of Contents**

| Cover Page            | 1  |
|-----------------------|----|
| Table of Contents     |    |
| Case Narrative        | 3  |
| Sample Summary        | 4  |
| Client Sample Results | 5  |
| Chronicle             | 6  |
| Definitions           | 7  |
| Certification Summary | 8  |
| Method Summary        | 9  |
| Chain of Custody      | 10 |
| Receipt Checklists    | 14 |

### **Case Narrative**

Client: Clayton County Recycling

Project/Site: 050916 PM

Job ID: 310-80721-1

Laboratory: TestAmerica Cedar Falls

Narrative

Job Narrative 310-80721-1

#### Comments

No additional comments.

#### Receipt

The sample was received on 5/17/2016 9:05 AM; the sample arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 20.1° C.

### Except:

Sample was received at the laboratory outside the required temperature criteria and without a sample ID, collection date or collection time listed on the chain of custody.

### GC Semi VOA

Method(s) 8082A: Surrogate recovery for the following sample was outside the upper control limit: 050916 PM (310-80721-1). This sample did not contain any target analytes; therefore, re-extraction and/or re-analysis was not performed.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

#### Metals

Method(s) 200.7 Rev 4.4, 6010C: The following sample was diluted due to the presence of an interferent: 050916 PM (310-80721-1). Elevated reporting limits (RLs) are provided.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

### **General Chemistry**

Method(s) D92: The following sample was collected in an improper container,

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

### Organic Prep

Method(s) 1311: EPA Method 1311 requires the room temperature to be maintained at 23 +/- 2 degrees Celsius for the duration of the leaching process. For batch 310-128142, the temperature 20.5-21.4 was outside of this range.

Method(s) 3550B: The following sample(s) was prepped with less sample due to the nature of the sample matrix. Elevated reporting limits (RLs) are provided.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

TestAmerica Job ID: 310-80721-1

# **Sample Summary**

Client: Clayton County Recycling Project/Site: 050916 PM

TestAmerica Job ID: 310-80721-1

| Lab Sample ID | Client Sample ID | Matrix | Collected      | Received       |
|---------------|------------------|--------|----------------|----------------|
| 310-80721-1   | 050916 PM        | Solid  | 05/09/16 00:00 | 05/17/16 09:05 |

# **Client Sample Results**

Client: Clayton County Recycling

Project/Site: 050916 PM

TestAmerica Job ID: 310-80721-1

Client Sample ID: 050916 PM

Date Collected: 05/09/16 00:00 Date Received: 05/17/16 09:05 Lab Sample ID: 310-80721-1

Matrix: Solid

| Analyte   | Result       | Qualifier | RL        | MDL      | Unit                | D      | Prepared          | Analyzed                | Dil Fac |
|---|--------------|-----------|-----------|----------|---------------------|--------|-------------------|-------------------------|---------|
| Arsenic   | <0.600       |           | 0.600     |          | mg/L                |        | 05/20/16 10:00    | 05/20/16 21:49          | 2       |
| Barium  | <1.00        |           | 1.00      |          | mg/L                |        | 05/20/16 10:00    | 05/20/16 21:49          | 2       |
| Cadmium   | <0.0400      |           | 0.0400    |          | mg/L                |        | 05/20/16 10:00    | 05/20/16 21:49          | 2       |
| Chromium  | <0.0400      |           | 0.0400    |          | mg/L                |        | 05/20/16 10:00    | 05/20/16 21:49          | 2       |
| Lead  | <0.200       |           | 0.200     |          | mg/L                |        | 05/20/16 10:00    | 05/20/16 21:49          | 2       |
| Selenium  | <0.300       |           | 0.300     |          | mg/L                |        | 05/20/16 10:00    | 05/20/16 21:49          | 2       |
| Silver  | <0.0400      |           | 0.0400    |          | mg/L                |        | 05/20/16 10:00    | 05/20/16 21:49          | 2       |
| Mercury   | <0.00200     |           | 0.00200   |          | mg/L                |        | 05/24/16 12:16    | 05/25/16 10:58          | 1       |
|   |              |           |           |          |                     |        |                   |                         |         |
| General Chemistry                                 |              |           |           |          |                     |        |                   |                         |         |
| -   | Result       | Qualifier | RL        | RL       | Unit                | D      | Prepared          | Analyzed                | Dil Fac |
| Analyte   | Result       | Qualifier | RL<br>200 | RL       | Unit<br>BTU/lb      | D      | Prepared          | Analyzed 05/26/16 12:00 | Dil Fac |
| General Chemistry<br>Analyte<br>BTU<br>Flashpoint |              | Qualifier |           | RL       |                     | _ D    | Prepared          |                         | 1       |
| Analyte<br>BTU<br>Flashpoint                      | 3500<br>>215 | Qualifier | 200       | RL       | BTU/lb              |        | Prepared          | 05/26/16 12:00          | 1       |
| Analyte<br>BTU                                    | 3500<br>>215 | Qualifier | 200       | RL<br>RL | BTU/lb<br>Degrees F | D<br>D | Prepared Prepared | 05/26/16 12:00          | Dil Fac |

Client Sample ID: 050916 PM

Date Collected: 05/09/16 00:00

Date Received: 05/17/16 09:05

Lab Sample ID: 310-80721-1

Matrix: Solid

Percent Solids: 84.8

| Analyte                       | Result    | Qualifier | RL       | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|-------------------------------|-----------|-----------|----------|-----|-------|---|----------------|----------------|---------|
| PCB-1016                      | <0.849    |           | 0.849    |     | mg/Kg | ☆ | 05/17/16 20:32 | 05/23/16 18:02 | 1       |
| PCB-1221                      | <0.849    |           | 0.849    |     | mg/Kg | ☆ | 05/17/16 20:32 | 05/23/16 18:02 | 1       |
| PCB-1232                      | < 0.849   |           | 0.849    |     | mg/Kg | ₩ | 05/17/16 20:32 | 05/23/16 18:02 | 1       |
| PCB-1242                      | <0.849    |           | 0.849    |     | mg/Kg | ₽ | 05/17/16 20:32 | 05/23/16 18:02 | 1       |
| PCB-1248                      | <0.849    |           | 0.849    |     | mg/Kg | 尊 | 05/17/16 20:32 | 05/23/16 18:02 | 1       |
| PCB-1254                      | <0.849    |           | 0.849    |     | mg/Kg | ₿ | 05/17/16 20:32 | 05/23/16 18:02 | 1       |
| PCB-1260                      | <0.849    |           | 0.849    |     | mg/Kg | ₽ | 05/17/16 20:32 | 05/23/16 18:02 | 1       |
| PCB-1268                      | <0.849    |           | 0.849    |     | mg/Kg | ☆ | 05/17/16 20:32 | 05/23/16 18:02 | 1       |
| Surrogate                     | %Recovery | Qualifier | Limits   |     |       |   | Prepared       | Analyzed       | Dil Fac |
| DCB Decachlorobiphenyl (Surr) | 118       | X         | 10 - 110 |     |       |   | 05/17/16 20:32 | 05/23/16 18:02 | 1       |
| Tetrachloro-m-xylene          | 50        |           | 10 - 110 |     |       |   | 05/17/16 20:32 | 05/23/16 18:02 | 1       |
| General Chemistry             |           |           |          |     |       |   |                |                |         |
| Analyte                       | Result    | Qualifier | RL       | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
| Halogens, Extractable Organic | 1030      |           | 61.4     |     | mg/Kg | ψ | 05/24/16 14:22 | 05/24/16 15:52 | -1      |

### Lab Chronicle

Client: Clayton County Recycling

TestAmerica Job ID: 310-80721-1 Project/Site: 050916 PM

Client Sample ID: 050916 PM

Lab Sample ID: 310-80721-1 Date Collected: 05/09/16 00:00

Matrix: Solid

Date Received: 05/17/16 09:05

|           | Batch    | Batch    |     | Dilution | Batch  | Prepared       |         |         |
|-----------|----------|----------|-----|----------|--------|----------------|---------|---------|
| Prep Type | Type     | Method   | Run | Factor   | Number | or Analyzed    | Analyst | Lab     |
| TCLP      | Leach    | 1311     |     |          | 128142 | 05/18/16 17:10 | JTA     | TAL CF  |
| TCLP      | Prep     | 3010A    |     |          | 128236 | 05/20/16 10:00 | JNR     | TAL CF  |
| TCLP      | Analysis | 6010C    |     | 2        | 128497 | 05/20/16 21:49 | OAD     | TAL CF  |
| TCLP      | Leach    | 1311     |     |          | 128142 | 05/18/16 17:10 | ATL     | TAL CF  |
| TCLP      | Prep     | 7470A    |     |          | 128682 | 05/24/16 12:16 | SAD     | TAL CF  |
| TCLP      | Analysis | 7470A    |     | 1        | 128837 | 05/25/16 10:58 | SAD     | TAL CF  |
| Soluble   | Leach    | DI Leach |     |          | 127861 | 05/19/16 08:25 | SAS     | TAL CF  |
| Soluble   | Analysis | 9045D    |     | 1        | 128179 | 05/19/16 10:21 | SAS     | TAL CF  |
| Total/NA  | Analysis | D240-87  |     | Ä        | 343338 | 05/26/16 12:00 | JAB     | TAL NSH |
| Total/NA  | Analysis | D92      |     | 1        | 129020 | 05/26/16 14:16 | BER     | TAL CF  |

Client Sample ID: 050916 PM

Lab Sample ID: 310-80721-1

Matrix: Solid Percent Solids: 84.8

Date Collected: 05/09/16 00:00 Date Received: 05/17/16 09:05

|           | Batch    | Batch  |     | Dilution | Batch  | Prepared       |         |         |
|-----------|----------|--------|-----|----------|--------|----------------|---------|---------|
| Prep Type | Type     | Method | Run | Factor   | Number | or Analyzed    | Analyst | Lab     |
| Total/NA  | Prep     | 3550B  |     |          | 127925 | 05/17/16 20:32 | AJM     | TAL CF  |
| Total/NA  | Analysis | 8082A  |     | 1        | 128573 | 05/23/16 18:02 | вкт     | TAL CF  |
| Total/NA  | Prep     | 9023   |     |          | 342942 | 05/24/16 14:22 | CLJ     | TAL NSH |
| Total/NA  | Analysis | 9023   |     | 1        | 342974 | 05/24/16 15:52 | CLJ     | TAL NSH |

### Laboratory References:

TAL CF = TestAmerica Cedar Falls, 704 Enterprise Drive, Cedar Falls, IA 50613, TEL (319)277-2401

TAL NSH = TestAmerica Nashville, 2960 Foster Creighton Drive, Nashville, TN 37204, TEL (615)726-0177

# **Definitions/Glossary**

Client: Clayton County Recycling

Project/Site: 050916 PM

TestAmerica Job ID: 310-80721-1

### Qualifiers

### GC Semi VOA

Qualifier Qualifler Description

X Surrogate is outside control limits

### **General Chemistry**

Qualifier Description

H Sample was prepped or analyzed beyond the specified holding time

### Glossary

| Abbrevlation   | These commonly used abbreviations may or may not be present in this report.                                 |
|----------------|---|
| п              | Listed under the "D" column to designate that the result is reported on a dry weight basis                  |
| %R             | Percent Recovery  |
| CFL            | Contains Free Liquid  |
| CNF            | Contains no Free Liquid   |
| DER            | Duplicate error ratio (normalized absolute difference)  |
| Dil Fac        | Dilution Factor   |
| DL, RA, RE, IN | Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample |
| DLC            | Decision level concentration  |
| MDA            | Minimum detectable activity   |
| EDL            | Estimated Detection Limit   |
| MDC            | Minimum detectable concentration  |
| MDL            | Method Detection Limit  |
| ML             | Minimum Level (Dioxin)  |
| NC             | Not Calculated  |
| ND             | Not detected at the reporting limit (or MDL or EDL if shown)  |
| PQL            | Practical Quantitation Limit  |
| QC             | Quality Control   |
| RER            | Relative error ratio  |
| RL             | Reporting Limit or Requested Limit (Radiochemistry)   |
| RPD            | Relative Percent Difference, a measure of the relative difference between two points                        |
| TEF            | Toxicity Equivalent Factor (Dioxin)   |
| TEQ            | Toxicity Equivalent Quotient (Dioxin)   |

# **Certification Summary**

Client: Clayton County Recycling

Project/Site: 050916 PM

TestAmerica Job ID: 310-80721-1

### Laboratory: TestAmerica Cedar Falls

Unless otherwise noted, all analytes for this laboratory were covered under each certification below.

| Authority                | Program                         |                              | EPA Region             | Certification ID | Expiration Date |
|--------------------------|---------------------------------|------------------------------|------------------------|------------------|-----------------|
| lowa                     | State Prog                      | gram                         | 7                      | 007              | 12-01-17        |
| The following analytes   | are included in this report, bu | ut certification is not offe | red by the governing a | uithority.       |                 |
|                          |                                 |                              | ed by and governing a  | attionty.        |                 |
| Analysis Method          | Prep Method                     | Matrix                       | Analyt                 | •                |                 |
| Analysis Method<br>8082A |                                 |                              | , , ,                  | e                | _               |

### Laboratory: TestAmerica Nashville

The certifications listed below are applicable to this report.

| Authority | Program       | EPA Region | Certification ID | Expiration Date |
|-----------|---------------|------------|------------------|-----------------|
| Iowa      | State Program | 7          | 131              | 04-01-18        |

### **Method Summary**

Client: Clayton County Recycling

Project/Site: 050916 PM

TestAmerica Job ID: 310-80721-1

| Method  | Method Description                                     | Protocol | Laboratory |
|---------|--|----------|------------|
| 8082A   | Polychlorinated Biphenyls (PCBs) by Gas Chromatography | SW846    | TAL CF     |
| 6010C   | Metals (ICP)   | SW846    | TAL CF     |
| 7470A   | Mercury (CVAA)   | SW846    | TAL CF     |
| 9023    | Organic Halides, Extractable (EOX)                     | SW846    | TAL NSH    |
| 9045D   | pH   | SW846    | TAL CF     |
| D240-87 | Heat of Combustion                                     | ASTM     | TAL NSH    |
| D92     | Flashpoint   | ASTM     | TAL CF     |

### Protocol References:

ASTM = ASTM International

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

### Laboratory References:

TAL CF = TestAmerica Cedar Falls, 704 Enterprise Drive, Cedar Falls, IA 50613, TEL (319)277-2401

TAL NSH = TestAmerica Nashville, 2960 Foster Creighton Drive, Nashville, TN 37204, TEL (615)726-0177





# Cooler/Sample Receipt and Temperature Log Form

| Client Information   | 多数的数据与自己的100mm(Additional and Additional and Addit  |
|--|--|
| Client: Churton Co. Re   | cycling_   |
| City/State:  | Project:   |
| Receipt Information  | The second secon |
| Date/Time Received: 5-17-16 09:05  | Received By: CH  |
| Delivery Type: Delive | FedEx Ground US Mail Spee-Dee  |
| TA Courier TA Field Services   | Client Drop-off Other:   |
| Condition of Cooler/Containers   | Marie Committee  |
| Sample(s) received in Cooler? Yes No   | If yes: Cooler ID: in box  |
| Multiple Coolers? Yes No   | If yes: Cooler# of   |
| Cooler Custody Seals Present? Yes No   | If yes: Cooler custody seals intact? Yes No  |
| Sample Custody Seals Present? Yes Yoo  | If yes: Sample custody seals intact? Yes No  |
| Trip Blank Present? Yes No   | If yes: Which VOA samples are in cooler? ↓   |
| Temperature Record  Coolant: Wet ice Blue ice Dry ice  | Other:   |
|  |  |
| 1-8  | COULTER  |
| Thermometer ID:  | pecify sample ID(s) and bottle type used to take measurement.  |
|  | Correction Factor (°C): +O.1'C   |
| Uncorrected Temp (°C): 20.0°C  | Corrected Temp (°C):   |
| Exceptions Noted   | 李的称:《《红红》的"世界"是一个"大大"的"大"的"大"的"大"的"大"的"大"的"大"的"大"的"大"的"大"  |
| <ol> <li>If temperature exceeds criteria, was sample(s) rece</li> <li>If yes: Is there evidence that the chilling proce</li> </ol>   |  |
| 2) If temperature is <0°C, are there obvious signs that (e.g., bulging septa, broken/cracked bottles?)   | t the integrity of sample containers is compromised?  Yes  No  |
| Note: If yes, contact PM before proceeding. If no, proceed wi  | ith login  |
| Additional Comments  | LAND, CITY IN SECTION OF THE SECTION   |
|  |  |
|  |  |
|  |  |
|  |  |

Document: CF-LG-WI-002

Revision: 21 Date: 7/28/2015

| *   | TA Quote #:    | Project Name: | 39. 4735 Project Number. | Project Manager. Gung    | Proj. Mgr. Telephone: 5( | Proj. Mgr. Email: Q | Groundwater Wastewater Drinking Water Soli Soli 190   | X X X X X |  | NOTES:   | Date Time Relinquished by:  | Shipped Via:                             |
|---|----------------|---------------|--------------------------|--------------------------|--------------------------|---------------------|---|-----------|--|--|---|--|
| Mandy Recyclin  | Aug 3          | H             | 57 Fax 5/03-539.         | de                       |                          |                     | Composite Field Filtered HVO <sub>2</sub> (Red & White Labet) HCI (Blue & White Labet) HCI (Blue & White Labet) H <sub>2</sub> SO <sub>4</sub> Piestic (Yellow & White Labet) Mone (Black & White Labet) Other ( Specify) |           |  | stAmerica.  DVANCE to receive results  rrges may be assessed.  | ample remainders.<br>Received by:   | Comments:<br>Temperature Upon Receipt:   |
| Cedar Falls Division<br>704 Enterprise Drive<br>Cedar Falls, IA 50613 | Wods Arbo      | 000           | 563-539-47               | Ired Run                 | Had Kinds                |                     | beigmaß emiT<br>beigmaß emiT<br>beggins enensinen to #<br>dsn2  |           |  | rom the time of receipt at Te<br>e AT LEAST 48 Hours in A<br>mmltments; additional cha   | TestAmerica disposing of sa<br>Date Time  | Stell Time                               |
| Test/America  | Send Kepon 10: |               | Telephone Number: SU     | Sampled by: (Print Name) | (Signature)              |                     | eige<br>Deloms2 etsO  |           |  | NOTE: All turn around times are calculated from the time of receipt at TestAmerica.  NOTICE: Pre-Arrangements must be made AT LEAST 48 Hours in ADVANCE to receive results with RUSH turn around time commitments; additional charges may be assessed. | NOTE: There may be a charge assessed for TestAmerica disposing of sample remainders.  Relinquished by:  Date  Time Received by: | Shipped Via: Received for TestAmblicaby. |

M - Hexane
N - None
O - Ashaco2
P - Ashaco2
P - Na204S
Q - Na2503
S - Na2504
T - TSP Dodecalydrate
U - Acatone
V - MCAA
W - ph 45
Z - other (specify) TestAmerica Management Notes Special Instructions/Note: Company Months Sample Disposal ( A fee may be assessed if samples are retained longer than 1 month)

Return To Client Disposal By Lab Mon
Special Instructions/QC Requirements: 80721 Loc: 310 310-80721-1 Preservation Codes: 04:40 A-HCL
B-NaOH
C-Zn Acetate
D-Nitric Acid
E-NaHSOA
F-MeOH
G-Anrichlor
H-Ascorbic Acid
J-Ics
K-EDTA
L-EDA 310-6804.1 Page 1 of 1 Data Time: 05-19-2016 Date/Time: Total Number of containers Jate/Time: Method of Shipment Carrier Tracking No(s): Analysis Requested Cooler Temperature(s) °C and Other Remarks: Lab PM:
Brown, Shali
E-Mail:
shali.brown@testamericainc.com Received by: × 9023/8023\_Prep EOX Chain of Custody Record 2240\_87\_NP/ Heat of Combustion × Fleid Fillered Sample (Yes or No) Time: Type (W-water, S-solid, C-Comp, C-weathold, G-grab) En-Tassu, Anal. BT=Thsue, A=Air Matrix Solid Company Sample 1446 Sample Central Time Date: (AT Requested (days): Due Date Requested: 5/27/2016 Sample Date 5/9/16 Project #: 31001320 Date/Time: SOW Phone: Unconfirmed Deliverable Requested: I, II, III, IV, Other (specify) (Sub Contract Lab) Custody Seal No.: Phone (319) 277-2401 Fax (319) 277-2425 Sample Identification - Client ID (Lab ID) 615-726-0177(Tel) 615-726-3404(Fax) TestAmerica Cedar Falls Possible Hazard Identification estAmerica Laboratories, Inc 2960 Foster Creighton Drive, 350916 PM (310-80721-1) Empty Kit Relinquished by: Custody Seals Intact

△ Yes △ No Client Information Cedar Falls, IA 50613 704 Enterprise Drive Shipping/Receiving clinquished by: Hinquished by: linguished by: Project Name: 050916 PM State, Zip: TN, 37204 Nashville



## **COOLER RECEIPT FORM**

| Cooler Received/Opened On 5/19/2016 @ 0940  |                 |
|---|-----------------|
| Time Samples Removed From Cooler Time Samples Placed in Storage   | (2 Hour Window) |
| 1. Tracking # 0527 (last 4 digits, FedEx) Courier: FedEx  |                 |
| IR Gun ID 14740456 pH Strip Lot HC564992 Chlorine Strip Lot 040715C                                     |                 |
| 2. Temperature of rep. sample or temp blank when opened: 12 Degrees Celsius                             |                 |
| 3. If Item #2 temperature is $0^{\circ}$ C or less, was the representative sample or temp blank frozen? | YES NONA        |
| 4. Were custody seals on outside of cooler?   | YES. NO.NA      |
| If yes, how many and where:   |                 |
| 5. Were the seals intact, signed, and dated correctly?  | YESNO NA        |
| 6. Were custody papers inside cooler?   | YESNONA         |
| I certify that I opened the cooler and answered questions 1-6 (Intial)                                  | CMIC.           |
| 7. Were custody seals on containers: YES NO and Intact  | YESNONA         |
| Were these signed and dated-correctly?  | YESNO.NA        |
| 8. Packing mat'l used? Bubblewrap Plastic bag Peanuts Vermiculite Foam Insert Paper                     | Other None      |
| 9. Cooling process: lce ce-pack lce (direct contact) Dry ice  | Other None      |
| 10. Did all containers arrive in good condition (unbroken)?   | YES NONA        |
| 11. Were all container labels complete (#, date, signed, pres., etc)?                                   | YES NONA        |
| 12. Did all container labels and tags agree with custody papers?  | (YES)NONA       |
| 13a. Were VOA vials received?   | YES.,NONA       |
| b. Was there any observable headspace present in any VOA vial?  | YESNO(NA        |
| 14. Was there a Trip Blank in this cooler? YES. NO. NA If multiple coolers, sequence                    | :e #            |
| I certify that I unloaded the cooler and answered questions 7-14 (intial)                               | 1               |
| 15a. On pres'd bottles, did pH test strips suggest preservation reached the correct pH level?           | YESNO.NA        |
| b. Did the bottle labels indicate that the correct preservatives were used                              | YESNO.(.NA)     |
| 16. Was residual chlorine present?  | YESNO.(NA)      |
| I certify that I checked for chlorine and pH as per SOP and answered questions 15-16 (Intial)           | LAM.            |
| 17. Were custody papers properly filled out (ink, signed, etc)?   | YES NONA        |
| 18. Did you sign the custody papers in the appropriate place?   | YES NONA        |
| 19. Were correct containers used for the analysis requested?  | YES NONA        |
| 20. Was sufficient amount of sample sent in each container?   | YES, NONA       |
| Certify that I entered this project into LIMS and answered questions 17-20 (intial)                     | KP              |
| certify that I attached a label with the unique LIMS number to each container (intial)                  | Z Z D           |
| 21. Were there Non-Conformance issues at login? YES(N) Was a NCM generated? YES(                        | ig#             |
|   |                 |

# Login Sample Receipt Checklist

Client: Clayton County Recycling

Job Number: 310-80721-1

List Source: TestAmerica Cedar Falls

Login Number: 80721

List Number: 1

Creator: Facciani, Melene K

| Question  | Answer | Comment   |
|---|--------|---|
| Radioactivity wasn't checked or is = background as measured by a survey meter.</td <td>N/A</td> <td></td> | N/A    |   |
| The cooler's custody seal, if present, is intact.   | N/A    |   |
| Sample custody seals, if present, are intact.   | N/A    |   |
| The cooler or samples do not appear to have been compromised or tampered with.                            | True   |   |
| Samples were received on ice.   | False  | rcvd in box   |
| Cooler Temperature is acceptable.   | False  |   |
| Cooler Temperature is recorded.   | True   |   |
| COC is present.   | True   |   |
| COC is filled out in ink and legible.   | True   |   |
| COC is filled out with all pertinent information.   | False  | ID not listed. Used PO# as ID                       |
| Is the Field Sampler's name present on COC?   | True   |   |
| There are no discrepancies between the containers received and the COC.                                   | True   |   |
| Samples are received within Holding Time (excluding tests with immediate HTs)                             | True   |   |
| Sample containers have legible labels.  | True   |   |
| Containers are not broken or leaking.   | True   |   |
| Sample collection date/times are provided.  | True   |   |
| Appropriate sample containers are used.   | True   |   |
| Sample bottles are completely filled.   | True   |   |
| Sample Preservation Verified.   | True   |   |
| There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs                          | True   |   |
| Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").                           | True   |   |
| Multiphasic samples are not present.  | True   |   |
| Samples do not require splitting or compositing.  | False  | Sample splitting required for subcontract purposes. |
| Residual Chlorine Checked,  | N/A    |   |

## Login Sample Receipt Checklist

Answer

Comment

Client: Clayton County Recycling

Job Number: 310-80721-1

Login Number: 80721

List Number: 2

Creator: Dawson, Keith M

List Source: TestAmerica Nashville

List Creation: 05/19/16 03:05 PM

Question

Radioactivity wasn't checked or is </= background as measured by a survey

meter.

The cooler's custody seal, if present, is intact.

Sample custody seals, if present, are intact.

The cooler or samples do not appear to have been compromised or tampered with.

Samples were received on ice.

Cooler Temperature is acceptable.

Cooler Temperature is recorded.

COC is present.

COC is filled out in ink and legible.

COC is filled out with all pertinent information.

Is the Field Sampler's name present on COC?

There are no discrepancies between the containers received and the COC.

Samples are received within Holding Time (excluding tests with immediate

HTs)

Sample containers have legible labels.

Containers are not broken or leaking.

Sample collection date/times are provided.

Appropriate sample containers are used.

Sample bottles are completely filled.

Sample Preservation Verified.

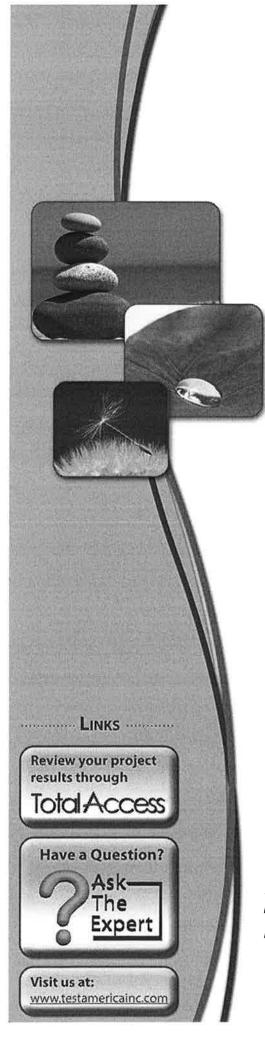
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs

Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").

Multiphasic samples are not present.

Samples do not require splitting or compositing.

Residual Chlorine Checked.



# **TestAmerica**

THE LEADER IN ENVIRONMENTAL TESTING

# **ANALYTICAL REPORT**

TestAmerica Laboratories, Inc. TestAmerica Cedar Falls 704 Enterprise Drive Cedar Falls, IA 50613 Tel: (319)277-2401

TestAmerica Job ID: 310-80700-1 Client Project/Site: 050916 AM

For: Clayton County Recycling 11645 Echo Avenue PO BOX 861 Monona, Iowa 52159

Attn: Gina Roys

Authorized for release by: 5/27/2016 11:49:04 AM

Shali Brown, Project Manager II (615)301-5031 shali.brown@testamericainc.com

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Client: Clayton County Recycling Project/Site: 050916 AM

# **Table of Contents**

| Cover Page            | 1  |
|-----------------------|----|
| Table of Contents     |    |
| Case Narrative        | 3  |
| Sample Summary        | 4  |
| Client Sample Results | 5  |
| Chronicle             | 6  |
| Definitions           | 7  |
| Certification Summary | 8  |
| Method Summary        | 9  |
| Chain of Custody      | 10 |
| Receipt Checklists    | 14 |

## Case Narrative

Client: Clayton County Recycling

Project/Site: 050916 AM

Job ID: 310-80700-1

Laboratory: TestAmerica Cedar Falls

Narrative

Job Narrative 310-80700-1

#### Comments

No additional comments.

## Receipt

The sample was received on 5/17/2016 1:15 PM; the sample arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 20.1° C.

#### Except:

Sample was received at the laboratory outside the required temperature criteria and without a sample ID, collection date or collection time listed on the chain of custody.

#### GC Semi VOA

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

#### Metals

Method(s) 200.7 Rev 4.4, 6010C: The following sample was diluted due to the presence of an interferent: 050916 AM (310-80700-1). Elevated reporting limits (RLs) are provided.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

## **General Chemistry**

Method(s) D92: The following sample was collected in an improper container.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

## **Organic Prep**

Method(s) 1311: EPA Method 1311 requires the room temperature to be maintained at 23 +/- 2 degrees Celsius for the duration of the leaching process. For batch 310-128142, the temperature 20.5-21.4 was outside of this range.

Method(s) 3550B: The following sample(s) was prepped with less sample due to the nature of the sample matrix. Elevated reporting limits (RLs) are provided.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

TestAmerica Job ID: 310-80700-1

# **Sample Summary**

Client: Clayton County Recycling Project/Site: 050916 AM

TestAmerica Job ID: 310-80700-1

| Lab Sample ID | Client Sample ID | Matrix | Collected      | Received       |
|---------------|------------------|--------|----------------|----------------|
| 310-80700-1   | 050916 AM        | Solid  | 05/09/16 00:00 | 05/17/16 13:15 |

# **Client Sample Results**

Client: Clayton County Recycling

Project/Site: 050916 AM

TestAmerica Job ID: 310-80700-1

Client Sample ID: 050916 AM

Lab Sample ID: 310-80700-1

Date Collected: 05/09/16 00:00 Date Received: 05/17/16 13:15

Matrix: Solid

| Method: 6010C - Metals (ICP)           | - TCLP   |           |         |     |           |     |                |                |         |
|--|----------|-----------|---------|-----|-----------|-----|----------------|----------------|---------|
| Analyte                                | Result   | Qualifier | RL      | MDL | Unit      | D   | Prepared       | Analyzed       | Dil Fac |
| Arsenic                                | <0.600   |           | 0.600   |     | mg/L      |     | 05/20/16 10:00 | 05/20/16 21:47 | 2       |
| Barium                                 | <1.00    |           | 1,00    |     | mg/L      |     | 05/20/16 10:00 | 05/20/16 21:47 | 2       |
| Cadmium                                | <0.0400  |           | 0.0400  |     | mg/L      |     | 05/20/16 10:00 | 05/20/16 21:47 | 2       |
| Chromium                               | <0.0400  |           | 0.0400  |     | mg/L      |     | 05/20/16 10:00 | 05/20/16 21:47 | 2       |
| Lead                                   | <0.200   |           | 0.200   |     | mg/L      |     | 05/20/16 10:00 | 05/20/16 21:47 | 2       |
| Selenium                               | <0.300   |           | 0.300   |     | mg/L      |     | 05/20/16 10:00 | 05/20/16 21:47 | 2       |
| Silver                                 | <0.0400  | 11. 11    | 0.0400  |     | mg/L      |     | 05/20/16 10:00 | 05/20/16 21:47 | 2       |
| Method: 7470A - Mercury (CV<br>Analyte | •        | Qualifier | RL      | MDL | Unit      | D   | Prepared       | Analyzed       | Dil Fac |
| Mercury                                | <0.00200 |           | 0.00200 |     | mg/L      |     | 05/24/16 12:16 | 05/25/16 10:56 | 1       |
| General Chemistry                      | Desuit   | Qualifier | RL      | RL  | 11-24     |     | Duamanad       | Analysed       | Dil Fac |
| Analyte                                |          | Quaimer   |         | KL  | Unit      | _ D | Prepared       | Analyzed       | DII Fac |
| BTU                                    | 4180     |           | 200     |     | BTU/lb    |     |                | 05/26/16 11:40 | 1       |
| Flashpoint                             | >215     |           | 40.0    |     | Degrees F |     |                | 05/26/16 14:16 | 1       |
| -<br>General Chemistry - Soluble       |          |           |         |     |           |     |                |                |         |
| Analyte                                | Result   | Qualifier | RL      | RL  | Unit      | D   | Prepared       | Analyzed       | Dil Fac |
| pH                                     | 8.13     | Н         | 0.100   |     | SU        |     |                | 05/19/16 10:20 | 1       |

Client Sample ID: 050916 AM

Date Collected: 05/09/16 00:00

Date Received: 05/17/16 13:15

Lab Sample ID: 310-80700-1

Matrix: Solid Percent Solids: 87.3

| Analyte                       | Result    | Qualifier | RL       | MDL | Unit  | D | Prepared       | Analyzed       | DII Fac |
|-------------------------------|-----------|-----------|----------|-----|-------|---|----------------|----------------|---------|
| PCB-1016                      | <0.902    |           | 0.902    |     | mg/Kg | ₽ | 05/17/16 20:32 | 05/23/16 17:52 | 1       |
| PCB-1221                      | <0.902    |           | 0.902    |     | mg/Kg | ☆ | 05/17/16 20:32 | 05/23/16 17:52 | 1       |
| PCB-1232                      | <0.902    |           | 0.902    |     | mg/Kg | ₽ | 05/17/16 20:32 | 05/23/16 17:52 | 1       |
| PCB-1242                      | <0.902    |           | 0.902    |     | mg/Kg | ₽ | 05/17/16 20:32 | 05/23/16 17:52 | 1       |
| PCB-1248                      | <0.902    |           | 0.902    |     | mg/Kg | ₩ | 05/17/16 20:32 | 05/23/16 17:52 | 1       |
| PCB-1254                      | <0.902    |           | 0.902    |     | mg/Kg | ☆ | 05/17/16 20:32 | 05/23/16 17:52 | 1       |
| PCB-1260                      | <0.902    |           | 0.902    |     | mg/Kg | Φ | 05/17/16 20:32 | 05/23/16 17:52 | 1       |
| PCB-1268                      | <0.902    |           | 0.902    |     | mg/Kg | ₽ | 05/17/16 20:32 | 05/23/16 17:52 | 1       |
| Surrogate                     | %Recovery | Qualifier | Limits   |     |       |   | Prepared       | Analyzed       | Dil Fac |
| DCB Decachlorobiphenyl (Surr) | 94        |           | 10 - 110 |     |       |   | 05/17/16 20:32 | 05/23/16 17:52 | 1       |
| Tetrachloro-m-xylene          | 47        |           | 10 - 110 |     |       |   | 05/17/16 20:32 | 05/23/16 17:52 | 1       |
| General Chemistry             |           |           |          |     |       |   |                |                |         |
| Analyte                       | Result    | Qualifier | RL       | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
| Halogens, Extractable Organic | 55.5      |           | 51.0     |     | mg/Kg | ₽ | 05/24/16 14:22 | 05/24/16 15:52 | 1       |

## Lab Chronicle

Client: Clayton County Recycling

Project/Site: 050916 AM

TestAmerica Job ID: 310-80700-1

Lab Sample ID: 310-80700-1 Client Sample ID: 050916 AM

Date Collected: 05/09/16 00:00 Date Received: 05/17/16 13:15 Matrix: Solid

|           | Batch    | Batch    |     | Dilution | Batch  | Prepared       |         |         |
|-----------|----------|----------|-----|----------|--------|----------------|---------|---------|
| Prep Type | Type     | Method   | Run | Factor   | Number | or Analyzed    | Analyst | Lab     |
| TCLP      | Leach    | 1311     |     |          | 128142 | 05/18/16 17:10 | JTA     | TAL CF  |
| TCLP      | Prep     | 3010A    |     |          | 128236 | 05/20/16 10:00 | JNR     | TAL CF  |
| TCLP      | Analysis | 6010C    |     | 2        | 128497 | 05/20/16 21:47 | OAD     | TAL CF  |
| TCLP      | Leach    | 1311     |     |          | 128142 | 05/18/16 17:10 | JTA     | TAL CF  |
| TCLP      | Prep     | 7470A    |     |          | 128682 | 05/24/16 12:16 | SAD     | TAL CF  |
| TCLP      | Analysis | 7470A    |     | 1        | 128837 | 05/25/16 10:56 | SAD     | TAL CF  |
| Soluble   | Leach    | DI Leach |     |          | 127861 | 05/19/16 08:25 | SAS     | TAL CF  |
| Soluble   | Analysis | 9045D    |     | 1        | 128179 | 05/19/16 10:20 | SAS     | TAL CF  |
| Total/NA  | Analysis | D240-87  |     | 1        | 343338 | 05/26/16 11:40 | JAB     | TAL NSH |
| Total/NA  | Analysis | D92      |     | ï        | 129020 | 05/26/16 14:16 | BER     | TAL CF  |

Client Sample ID: 050916 AM

Date Collected: 05/09/16 00:00 Date Received: 05/17/16 13:15

Lab Sample ID: 310-80700-1

Matrix: Solid Percent Solids: 87.3

|           | Batch    | Batch  |     | Dilution | Batch  | Prepared       |         |         |
|-----------|----------|--------|-----|----------|--------|----------------|---------|---------|
| Prep Type | Туре     | Method | Run | Factor   | Number | or Analyzed    | Analyst | Lab     |
| Total/NA  | Prep     | 3550B  |     |          | 127925 | 05/17/16 20:32 | AJM     | TAL CF  |
| Total/NA  | Analysis | 8082A  |     | 1        | 128573 | 05/23/16 17:52 | BKT     | TAL CF  |
| Total/NA  | Prep     | 9023   |     |          | 342942 | 05/24/16 14:22 | CLJ     | TAL NSH |
| Total/NA  | Analysis | 9023   |     | 1        | 342974 | 05/24/16 15:52 | CLJ     | TAL NSH |

Page 6 of 15

## Laboratory References:

TAL CF = TestAmerica Cedar Falls, 704 Enterprise Drive, Cedar Falls, IA 50613, TEL (319)277-2401 TAL NSH = TestAmerica Nashville, 2960 Foster Creighton Drive, Nashville, TN 37204, TEL (615)726-0177

# **Definitions/Glossary**

Client: Clayton County Recycling

Project/Site: 050916 AM

TestAmerica Job ID: 310-80700-1

## Qualifiers

## **General Chemistry**

Qualifier Qualifier Description

H Sample was prepped or analyzed beyond the specified holding time

Toxicity Equivalent Quotient (Dioxin)

## Glossary

TEQ

|                | Listed under the "D" column to designate that the result is reported on a dry weight basis  Percent Recovery  Contains Food Livid |
|----------------|---|
| %R             |   |
|                | Contains Free Limits  |
| CFL            | Contains Free Liquid  |
| CNF            | Contains no Free Liquid   |
| DER            | Duplicate error ratio (normalized absolute difference)  |
| Dil Fac        | Dilution Factor   |
| DL, RA, RE, IN | Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample                       |
| DLC            | Decision level concentration  |
| MDA            | Minimum detectable activity   |
| EDL            | Estimated Detection Limit   |
| MDC            | Minimum detectable concentration  |
| MDL            | Method Detection Limit  |
| ML             | Minimum Level (Dioxin)  |
| NC             | Not Calculated  |
| ND             | Not detected at the reporting limit (or MDL or EDL if shown)  |
| PQL            | Practical Quantitation Limit  |
| QC             | Quality Control   |
| RER            | Relative error ratio  |
| RL             | Reporting Limit or Requested Limit (Radiochemistry)   |
| RPD            | Relative Percent Difference, a measure of the relative difference between two points  |
| TEF            | Toxicity Equivalent Factor (Dioxin)   |

# **Certification Summary**

Client: Clayton County Recycling

Project/Site: 050916 AM

TestAmerica Job ID: 310-80700-1

## Laboratory: TestAmerica Cedar Falls

Unless otherwise noted, all analytes for this laboratory were covered under each certification below.

| Authority              | Program                         |                               | EPA Region            | Certification ID | Expiration Date |
|------------------------|---------------------------------|-------------------------------|-----------------------|------------------|-----------------|
| owa                    | State Prog                      | gram                          | 7                     | 007              | 12-01-17        |
|                        |                                 |                               |                       |                  |                 |
| The following analytes | are included in this report hi  | it certification is not offer | ed by the governing a | uthority.        |                 |
| ,                      | are included in this report, bu |                               | , ,                   | •                |                 |
| Analysis Method        | Prep Method                     | Matrix                        | Analyt                | e .              |                 |
| ,                      |                                 |                               | , ,                   | e .              |                 |

## Laboratory: TestAmerica Nashville

The certifications listed below are applicable to this report.

| Authority | Program       | EPA Region | Certification ID | Expiration Date |
|-----------|---------------|------------|------------------|-----------------|
| lowa      | State Program | 7          | 131              | 04-01-18        |

# **Method Summary**

Client: Clayton County Recycling

Project/Site: 050916 AM

TestAmerica Job ID: 310-80700-1

| Method  | Method Description                                     | Protocol | Laboratory<br>TAL CF |  |
|---------|--|----------|----------------------|--|
| 8082A   | Polychlorinated Biphenyls (PCBs) by Gas Chromatography | SW846    |                      |  |
| 6010C   | Metals (ICP)   | SW846    | TAL CF               |  |
| 7470A   | Mercury (CVAA)   | SW846    | TAL CF               |  |
| 9023    | Organic Halides, Extractable (EOX)                     | SW846    | TAL NSH              |  |
| 9045D   | pH   | SW846    | TAL CF               |  |
| D240-87 | Heat of Combustion                                     | ASTM     | TAL NSH              |  |
| D92     | Flashpoint   | ASTM     | TAL CF               |  |

## Protocol References:

ASTM = ASTM International

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

## Laboratory References:

TAL CF = TestAmerica Cedar Falls, 704 Enterprise Drive, Cedar Falls, IA 50613, TEL (319)277-2401

TAL NSH = TestAmerica Nashville, 2960 Foster Creighton Drive, Nashville, TN 37204, TEL (615)726-0177





## 310-50700 Chain of Custody

# Cooler/Sample Receipt and Temperature Log Form

| Client Information  | [他等更加的企业] 中心中心中的学生的概念  |
|---|--|
| Client: Clauton Co.   | Recycling  |
| City/State:   | Project:   |
| Receipt Information   |  |
| Date/Time Received: 5-17-16 09:0  | Received By: CH  |
| Delivery Type: HUPS FedEx   | FedEx Ground US Mail Spee-Dee  |
| ☐ TA Courier ☐ TA Field Serv  |  |
| Condition of Cooler/Containers  | WARREST STATES THE CONTRACTOR OF THE   |
| Sample(s) received in Cooler?   | No If yes: Cooler ID: in box   |
| Multiple Coolers? Yes N   | No If yes: Cooler# of  |
| Cooler Custody Seals Present? Yes N   | No If yes: Cooler custody seals intact? Yes No   |
| Sample Custody Seals Present? Yes X   | lf yes: Sample custody seals intact? Yes No  |
| Trip Blank Present? Yes N   | No If yes: Which VOA samples are in cooler? ↓  |
| Temperature Blank? Yes XNO I  | Dry ice Other: NONE  ID & Bottle Type: Occide  If no, specify sample ID(s) and bottle type used to take measurement.   |
| Thermometer ID:   | Correction Factor (°C): + O.1 °C   |
| Uncorrected Temp (°C): 20.0 C   | Corrected Temp (°C):   |
| Exceptions Noted  |  |
| <ol> <li>If temperature exceeds criteria, was sample(s</li> <li>a) If yes: Is there evidence that the chilling</li> </ol> |  |
| <ol> <li>If temperature is &lt;0°C, are there obvious sign<br/>(e.g., bulging septa, broken/cracked bottles?)</li> </ol>  | ns that the integrity of sample containers is compromised?  No   |
| Note: If yes, contact PM before proceeding. If no, proc   |  |
| Additional Comments   | A TO SECURE OF THE SECURITY OF |
|   |  |
|   |  |
|   |  |
|   |  |

gena @ cerrecycling.com Send QC with report Time Fax Results Email Results Date TAT bisbrist2 (lbserts liso fauM) TAT Haug Phone: 319 - 211 - 2401 or 1 - 600 - 150 - 2401 563-539. Gina Roy Analyze For. 7 Fax: 319-277-2425 Relinquished by: Proj. Mgr. Telephone: Shipped Via: Project Manager: 4735 Project Number. Proj. Mgr. Email: Project Name: राजम्ब्रु TA Quote #: 7 Your PO#: Invoice To: Time Laboratory Comments: IIO lios Date Matrix appnis Drinking Water NOTES Fax: 5203-539. Groundwater Other (Specify) None (Black & White Labet) Hasa (Yellow & White Label) Preservative NOTICE: Pre-Arrangements must be made AT LEAST 48 Hours in ADVANCE to receive results Plastic (Yellow & White Label) emperature Upon Receipt with RUSH turn around time commitments; additional charges may be assessed. (leda.) efinW & egnsiO ) HOBM HCI (Blue & White Label) NOTE: There may be a charge assessed for TestAmerica disposing of sample remainders.
Relinquished by: | Time | Received by: (leds.) efirtW & best) cONH NOTE: All turn around times are calculated from the time of receipt at TestAmerica Comments: beneill'i biei-Lunde Composite Cedar Falls, IA 50613 704 Enterprise Drive Cedar Falls Olvision SIND **Grab** Ime # of containers shipped 2000 563-539-Time Sampled 11045 Date Sampled (Signature) \* Address: Telephone Number: Sampled by: (Print Name) Company: City/State/Zip Code: Test/America Send Report To: ed for TestAmeriga by: Sample ID

N - None
O - Asha02
P - Na204S
Q - Na2503
R - Na2503
R - Na2503
R - Na2604
I - TSP Dodecahydrate
U - Acetone
U - Acetone
W - Inft 4-5
Z - other (specify) TestAmerical States of the Control o Special Instructions/Note: 80700 Months Loc: 310 Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

Return To Client
Special Instructions/QC Requirements: 310-80700-1 Preservation Codes: H - Ascorbic Acid Page: Page 1 of 1 A - HCL
B - NaOH
C - Zn Acetate
D - Nitric Acid
E - NaHSO4
F - MeOH
G - Amchlor COC No: 310-6804.1 J - DI Water K - EDTA L - EDA Oste/Time: OS-19-Zoll Date/Time: Total Number of containers Date/Time; Method of Shipment **Analysis Requested** Cooler Temperature(s) °C and Other Remarks: Lab PM: Brown, Shali E-Mait: Shali:brown@testamericainc.com Received by: 8023/8023\_Prep EOX Chain of Custody Record D240\_87\_NP/ Heat of Combustion Type (Wwater, Srootd, (C≂comp, O=wasterior, G=grab) BT=Traue, A=A/r) Preservation Code: Matrix Solid Company Company Sample かん Sample Central Due Data Requested: 5/27/2016 TAT Requested (days): Sample Date 5/9/16 Project #: 31001320 SSOW#: Date/Time; WO# Unconfirmed Deliverable Requested: I, II, III, IV, Other (specify) Client Information (Sub Contract Lab) Custody Seal No.: Sample Identification - Client ID (Lab ID) Phone (319) 277-2401 Fax (319) 277-2425 Phone: 615-726-0177(Tel) 615-726-3404(Fax) **TestAmerica Cedar Falls** Possible Hazard Identification FestAmerica Laboratories, Inc. 2960 Foster Creighton Drive, 050916 AM (310-80700-1) Empty Kit Relinquished by Custody Seals Intact: A Yes A No Cedar Falls, IA 50613 Shipping/Receiving inquished by: elinquished by: elinquished by: Project Name: 050916 AM State, Zip: TN, 37204 Nashville



## **COOLER RECEIPT FORM**

| Cooler Received/Opened On_5/19/2016 @ 0940_   |                 |
|---|-----------------|
| Time Samples Removed From Cooler Time Samples Placed In Storage   | (2 Hour Window) |
| 1. Tracking # 0527 (last 4 digits, FedEx) Courler: _FedEx_  |                 |
| IR Gun ID 14740456 pH Strlp Lot HC564992 Chlorine Strip Lot 040715C                                     |                 |
| 2. Temperature of rep. sample or temp blank when opened:  |                 |
| 3. If Item #2 temperature is $0^{\circ}$ C or less, was the representative sample or temp blank frozen? | YES NONA        |
| 4. Were custody seals on outside of cooler?   | YES(NONA        |
| If yes, how many and where:   |                 |
| 5. Were the seals intact, signed, and dated correctly?  | YESNO NA        |
| 6. Were custody papers inside cooler?   | YESNONA         |
| I certify that I opened the cooler and answered questions 1-6 (intial)                                  | ance            |
| 7. Were custody seals on containers: YES NO and Intact  | YESNONA         |
| Were these signed and dated sorrectly?  | YESNONA         |
| 8. Packing mat'l used? Bubblewran Plastic bag Peanuts Vermiculite Foam Insert Paper                     | Other None      |
| 9. Cooling process: Ice Ice-pack Ice (direct contact) Dry ice   | Other None      |
| 10. Did all containers arrive in good condition (unbroken)?   | YES NONA        |
| 11. Were all container labels complete (#, date, signed, pres., etc)?                                   | YES).NONA       |
| 12. Did all container labels and tags agree with custody papers?  | VES NONA        |
| 13a, Were VOA vials received?   | YES. NO. NA     |
| b. Was there any observable headspace present in any VOA vial?  | YESNO(NA        |
| 14. Was there a Trip Blank in this cooler? YES. NO. NA If multiple coolers, sequence                    | se #            |
| I certify that I unloaded the cooler and answered questions 7-14 (Intial)                               | $\Lambda$ 1     |
| 15a. On pres'd bottles, did pH test strips suggest preservation reached the correct pH level?           | YESNO(NA)       |
| b. Did the bottle labels indicate that the correct preservatives were used                              | YESNO.(NA)      |
| 16. Was residual chlorine present?  | YESNO.(.NA)     |
| I certify that I checked for chlorine and pH as per SOP and answered questions 15-16 (intial)           |                 |
| 17. Were custody papers properly filled out (ink, signed, etc)?   | YES NONA        |
| 18. Did you sign the custody papers in the appropriate place?   | YES NONA        |
| 19. Were correct containers used for the analysis requested?  | YES NONA        |
| 20. Was sufficient amount of sample sent in each container?   | VES, NONA       |
| certify that I entered this project into LIMS and answered questions 17-20 (intial)                     |                 |
| certify that I attached a label with the unique LIMS number to each container (intial)                  | _ K             |
| 21. Were there Non-Conformance issues at login? YES(N) Was a NCM generated? YES                         | vg#             |
| $\sim$  |                 |

# Login Sample Receipt Checklist

Client: Clayton County Recycling

Job Number: 310-80700-1

Login Number: 80700

List Number: 1

Creator: Facciani, Melene K

List Source: TestAmerica Cedar Falls

| Creator: Facciani, Melene K   |        |   |
|---|--------|---|
| Question  | Answer | Comment   |
| Radioactivity wasn't checked or is = background as measured by a survey meter.</td <td>N/A</td> <td></td> | N/A    |   |
| The cooler's custody seal, if present, is intact.   | N/A    |   |
| Sample custody seals, if present, are intact.   | N/A    |   |
| The cooler or samples do not appear to have been compromised or ampered with.                             | True   |   |
| Samples were received on ice.   | False  | received in box                                     |
| Cooler Temperature is acceptable.   | False  |   |
| Cooler Temperature is recorded.   | True   |   |
| COC is present.   | True   |   |
| COC is filled out in ink and legible.   | True   |   |
| COC is filled out with all pertinent information.   | False  | ID not filled. used PO# as ID                       |
| s the Field Sampler's name present on COC?  | True   |   |
| There are no discrepancies between the containers received and the COC.                                   | True   |   |
| Samples are received within Holding Time (excluding tests with immediate HTs)                             | True   |   |
| Sample containers have legible labels.  | True   |   |
| Containers are not broken or leaking.   | True   |   |
| Sample collection date/times are provided.  | True   |   |
| appropriate sample containers are used.   | True   |   |
| sample bottles are completely filled.   | True   |   |
| Sample Preservation Verified.   | True   |   |
| There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs                          | True   |   |
| Containers requiring zero headspace have no headspace or bubble is 6mm (1/4").                            | True   |   |
| flultiphasic samples are not present.   | True   |   |
| Samples do not require splitting or compositing.  | False  | Sample splitting required for subcontract purposes. |
| Residual Chlorine Checked,  | N/A    |   |

# Login Sample Receipt Checklist

Client: Clayton County Recycling

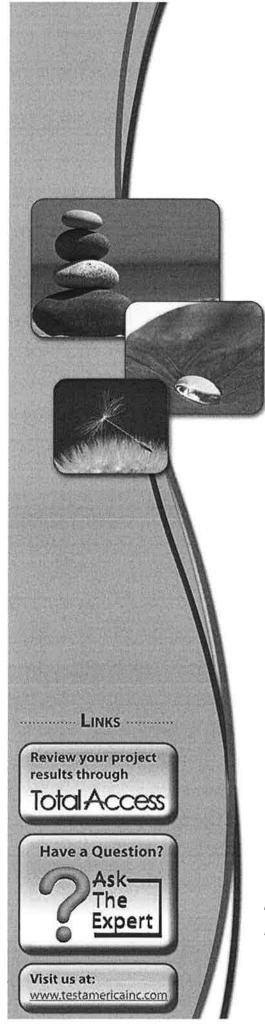
Job Number: 310-80700-1

Login Number: 80700 List Number: 2

Creator: Dawson, Keith M

List Source: TestAmerica Nashville List Creation: 05/19/16 03:05 PM

| Question   | Answer | Comment |
|--|--------|---------|
| Radioactivity wasn't checked or is = background as measured by a survey meter.</td <td>True</td> <td></td> | True   |         |
| The cooler's custody seal, if present, is intact.  | N/A    |         |
| Sample custody seals, if present, are intact.  | N/A    |         |
| The cooler or samples do not appear to have been compromised or tampered with.                             | True   |         |
| Samples were received on ice.  | True   |         |
| Cooler Temperature is acceptable.  | True   |         |
| Cooler Temperature is recorded.  | True   |         |
| COC is present.  | True   |         |
| COC is filled out in ink and legible.  | True   |         |
| COC is filled out with all pertinent information.  | True   |         |
| Is the Field Sampler's name present on COC?  | True   |         |
| There are no discrepancies between the containers received and the COC.                                    | True   |         |
| Samples are received within Holding Time (excluding tests with immediate HTs)                              | True   |         |
| Sample containers have legible labels.   | True   |         |
| Containers are not broken or leaking.  | True   |         |
| Sample collection date/times are provided.   | True   |         |
| Appropriate sample containers are used.  | True   |         |
| Sample bottles are completely filled.  | True   |         |
| Sample Preservation Verified.  | N/A    |         |
| There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs                           | True   |         |
| Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").                            | N/A    |         |
| Multiphasic samples are not present.   | True   |         |
| Samples do not require splitting or compositing.   | True   |         |
| Residual Chlorine Checked.   | N/A    |         |



# **TestAmerica**

THE LEADER IN ENVIRONMENTAL TESTING

# **ANALYTICAL REPORT**

TestAmerica Laboratories, Inc. TestAmerica Cedar Falls 704 Enterprise Drive Cedar Falls, IA 50613 Tel: (319)277-2401

TestAmerica Job ID: 310-80723-1 Client Project/Site: 051016 PM

For: Clayton County Recycling 11645 Echo Avenue PO BOX 861 Monona, Iowa 52159

Attn: Gina Roys

Authorized for release by: 5/27/2016 11:51:30 AM

Shali Brown, Project Manager II (615)301-5031 shali.brown@testamericainc.com

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

# **Table of Contents**

| Cover Page            | 1  |
|-----------------------|----|
| Table of Contents     | 2  |
| Case Narrative        | 3  |
| Sample Summary        | 4  |
| Client Sample Results |    |
| Chronicle             | 6  |
| Definitions           | 7  |
| Certification Summary | 8  |
| Method Summary        | 9  |
| Chain of Custody      | 10 |
| Receipt Checklists    |    |

## **Case Narrative**

Client: Clayton County Recycling

Project/Site: 051016 PM

Job ID: 310-80723-1

Laboratory: TestAmerica Cedar Falls

Narrative

Job Narrative 310-80723-1

#### Comments

No additional comments.

## Receipt

The sample was received on 5/17/2016 9:05 AM; the sample arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 20.1° C.

## Except:

Sample was received at the laboratory outside the required temperature criteria and without a sample ID, collection date or collection time listed on the chain of custody.

## GC Semi VOA

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

#### Metals

Method(s) 200.7 Rev 4.4, 6010C: The following sample was diluted due to the presence of an interferent: 051016 PM (310-80723-1). Elevated reporting limits (RLs) are provided.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

## **General Chemistry**

Method(s) D92: The following sample was collected in an improper container.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

## **Organic Prep**

Method(s) 1311: EPA Method 1311 requires the room temperature to be maintained at 23 +/- 2 degrees Celsius for the duration of the leaching process. For batch 310-128142, the temperature 20.5-21.4 was outside of this range.

Method(s) 3550B: The following sample(s) was prepped with less sample due to the nature of the sample matrix. Elevated reporting limits (RLs) are provided.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

TestAmerica Job ID: 310-80723

# **Sample Summary**

Client: Clayton County Recycling

Project/Site: 051016 PM

TestAmerica Job ID: 310-80723-1

| Lab Sample ID | Client Sample ID | Matrix | Collected      | Received       |
|---------------|------------------|--------|----------------|----------------|
| 310-80723-1   | 051016 PM        | Solid  | 05/10/16 00:00 | 05/17/16 09:05 |

# **Client Sample Results**

Client: Clayton County Recycling

Project/Site: 051016 PM

TestAmerica Job ID: 310-80723-1

Client Sample ID: 051016 PM

Lab Sample ID: 310-80723-1 Date Collected: 05/10/16 00:00

Matrix: Solid

Date Received: 05/17/16 09:05

| Method: 6010C - Metals (ICF                      | P) - TCLP |           |               |     |              |   |                         |                                |         |
|--|-----------|-----------|---------------|-----|--------------|---|-------------------------|--------------------------------|---------|
| Analyte  | Result    | Qualifier | RL            | MDL | Unit         | D | Prepared                | Analyzed                       | Dil Fac |
| Arsenic  | <0.600    |           | 0.600         |     | mg/L         | _ | 05/20/16 10:00          | 05/20/16 21:53                 | 2       |
| Barium   | <1.00     |           | 1.00          |     | mg/L         |   | 05/20/16 10:00          | 05/20/16 21:53                 | 2       |
| Cadmium  | <0.0400   |           | 0.0400        |     | mg/L         |   | 05/20/16 10:00          | 05/20/16 21:53                 | 2       |
| Chromium   | <0.0400   |           | 0.0400        |     | mg/L         |   | 05/20/16 10:00          | 05/20/16 21:53                 | 2       |
| Lead   | <0.200    |           | 0.200         |     | mg/L         |   | 05/20/16 10:00          | 05/20/16 21:53                 | 2       |
| Selenium   | <0.300    |           | 0.300         |     | mg/L         |   | 05/20/16 10:00          | 05/20/16 21:53                 | 2       |
| Silver   | <0.0400   |           | 0.0400        |     | mg/L         |   | 05/20/16 10:00          | 05/20/16 21:53                 | 2       |
| Method: 7470A - Mercury (C<br>Analyte<br>Mercury | •         | Qualifier | RL<br>0.00200 | MDL | Unit<br>mg/L | D | Prepared 05/24/16 12:16 | <b>Analyzed</b> 05/25/16 11:04 | Dil Fac |
| -<br>General Chemistry<br>Analyte                | Result    | Qualifier | RL            | RL  | Unit         | D | Prepared                | Analyzed                       | Dil Fac |
| вти  | 4140      |           | 200           |     | BTU/lb       |   | 14                      | 05/26/16 14:00                 | 1       |
| Flashpoint                                       | >215      |           | 40.0          |     | Degrees F    |   |                         | 05/26/16 14:16                 | 1       |
| ₂<br>General Chemistry - Soluble                 | •         |           |               |     |              |   |                         |                                |         |
| Analyte  |           | Qualifier | RL            | RL  | Unit         | D | Prepared                | Analyzed                       | Dil Fac |
| pH   | 8.17      | П         | 0.100         |     | SU           |   |                         | 05/19/16 10:24                 | 1       |

Client Sample ID: 051016 PM

Date Collected: 05/10/16 00:00

Date Received: 05/17/16 09:05

Lab Sample ID: 310-80723-1

Matrix: Solid Percent Solids: 79.4

| Analyte                       | Result    | Qualifier | RL       | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|-------------------------------|-----------|-----------|----------|-----|-------|---|----------------|----------------|---------|
| PCB-1016                      | <0.869    |           | 0.869    |     | mg/Kg | ₩ | 05/17/16 20:32 | 05/23/16 18:23 | 1       |
| PCB-1221                      | <0.869    |           | 0.869    |     | mg/Kg | 拉 | 05/17/16 20:32 | 05/23/16 18:23 | 1       |
| PCB-1232                      | <0.869    |           | 0.869    |     | mg/Kg | ₽ | 05/17/16 20:32 | 05/23/16 18:23 | 1       |
| PCB-1242                      | <0.869    |           | 0.869    |     | mg/Kg | ₩ | 05/17/16 20:32 | 05/23/16 18:23 | 1       |
| PCB-1248                      | < 0.869   |           | 0.869    |     | mg/Kg | 許 | 05/17/16 20:32 | 05/23/16 18:23 | 1       |
| PCB-1254                      | <0.869    |           | 0.869    |     | mg/Kg | ₩ | 05/17/16 20:32 | 05/23/16 18:23 | 1       |
| PCB-1260                      | <0.869    |           | 0.869    |     | mg/Kg | ₽ | 05/17/16 20:32 | 05/23/16 18:23 | 1       |
| PCB-1268                      | <0.869    |           | 0.869    |     | mg/Kg | ₽ | 05/17/16 20:32 | 05/23/16 18:23 | 1       |
| Surrogate                     | %Recovery | Qualifier | Limits   |     |       |   | Prepared       | Analyzed       | Dil Fac |
| DCB Decachlorobiphenyl (Surr) | 88        |           | 10 - 110 |     |       |   | 05/17/16 20:32 | 05/23/16 18:23 | 1       |
| Tetrachloro-m-xylene          | 48        |           | 10 - 110 |     |       |   | 05/17/16 20:32 | 05/23/16 18:23 | 1       |
| General Chemistry             |           |           |          |     |       |   |                |                |         |
| Analyte                       | Result    | Qualifier | RL       | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
| Halogens, Extractable Organic | 368       |           | 54.0     |     | mg/Kg | * | 05/24/16 14:22 | 05/24/16 15:52 | 1       |

## Lab Chronicle

Client: Clayton County Recycling

Project/Site: 051016 PM

TestAmerica Job ID: 310-80723-1

Client Sample ID: 051016 PM

Date Collected: 05/10/16 00:00 Date Received: 05/17/16 09:05 Lab Sample ID: 310-80723-1

Matrix: Solid

|           | Batch    | Batch    |     | Dilution | Batch  | Prepared       |         |         |
|-----------|----------|----------|-----|----------|--------|----------------|---------|---------|
| Prep Type | Type     | Method   | Run | Factor   | Number | or Analyzed    | Analyst | Lab     |
| TCLP      | Leach    | 1311     |     |          | 128142 | 05/18/16 17:10 | JTA     | TAL CF  |
| TCLP      | Prep     | 3010A    |     |          | 128236 | 05/20/16 10:00 | JNR     | TAL CF  |
| TCLP      | Analysis | 6010C    |     | 2        | 128497 | 05/20/16 21:53 | OAD     | TAL CF  |
| TCLP      | Leach    | 1311     |     |          | 128142 | 05/18/16 17:10 | JTA     | TAL CF  |
| TCLP      | Prep     | 7470A    |     |          | 128682 | 05/24/16 12:16 | SAD     | TAL CF  |
| TCLP      | Analysis | 7470A    |     | 1        | 128837 | 05/25/16 11:04 | SAD     | TAL CF  |
| Soluble   | Leach    | DI Leach |     |          | 127861 | 05/19/16 08:25 | SAS     | TAL CF  |
| Soluble   | Analysis | 9045D    |     | 1        | 128179 | 05/19/16 10:24 | SAS     | TAL CF  |
| Total/NA  | Analysis | D240-87  |     | 1        | 343338 | 05/26/16 14:00 | JAB     | TAL NSH |
| Total/NA  | Analysis | D92      |     | 1        | 129020 | 05/26/16 14:16 | BER     | TAL CF  |

Client Sample ID: 051016 PM

Date Collected: 05/10/16 00:00

Date Received: 05/17/16 09:05

Lab Sample ID: 310-80723-1

Matrix: Solid Percent Solids: 79.4

|           | Batch    | Batch  |     | Dilution | Batch  | Prepared       |         |         |
|-----------|----------|--------|-----|----------|--------|----------------|---------|---------|
| Prep Type | Туре     | Method | Run | Factor   | Number | or Analyzed    | Analyst | Lab     |
| Total/NA  | Prep     | 3550B  |     |          | 127925 | 05/17/16 20:32 | AJM     | TAL CF  |
| Total/NA  | Analysis | 8082A  |     | 1        | 128573 | 05/23/16 18:23 | BKT     | TAL CF  |
| Total/NA  | Prep     | 9023   |     |          | 342942 | 05/24/16 14:22 | CLJ     | TAL NSH |
| Total/NA  | Analysis | 9023   |     | 1        | 342974 | 05/24/16 15:52 | CLJ     | TAL NSH |

## Laboratory References:

TAL CF = TestAmerica Cedar Falls, 704 Enterprise Drive, Cedar Falls, IA 50613, TEL (319)277-2401

TAL NSH = TestAmerica Nashville, 2960 Foster Creighton Drive, Nashville, TN 37204, TEL (615)726-0177

# **Definitions/Glossary**

Client: Clayton County Recycling

Project/Site: 051016 PM

TestAmerica Job ID: 310-80723-1

## **Qualifiers**

## **General Chemistry**

Qualifier Qualifier Description

H Sample was prepped or analyzed beyond the specified holding time

Reporting Limit or Requested Limit (Radiochemistry)

Toxicity Equivalent Factor (Dioxin)

Toxicity Equivalent Quotient (Dioxin)

Relative Percent Difference, a measure of the relative difference between two points

## **Glossary**

RL

RPD

TEF

TEQ

| Abbreviation   | These commonly used abbreviations may or may not be present in this report.                                 |
|----------------|---|
| п              | Listed under the "D" column to designate that the result is reported on a dry weight basis                  |
| %R             | Percent Recovery  |
| CFL            | Contains Free Liquid  |
| CNF            | Contains no Free Liquid   |
| DER            | Duplicate error ratio (normalized absolute difference)  |
| Dil Fac        | Dilution Factor   |
| DL, RA, RE, IN | Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample |
| DLC            | Decision level concentration  |
| MDA            | Minimum detectable activity   |
| EDL            | Estimated Detection Limit   |
| MDC            | Minimum detectable concentration  |
| MDL            | Method Detection Limit  |
| ML             | Minimum Level (Dioxin)  |
| NC             | Not Calculated  |
| ND             | Not detected at the reporting limit (or MDL or EDL if shown)  |
| PQL            | Practical Quantitation Limit  |
| QC             | Quality Control   |
| RER            | Relative error ratio  |

# **Certification Summary**

Client: Clayton County Recycling

Project/Site: 051016 PM

TestAmerica Job ID: 310-80723-1

## Laboratory: TestAmerica Cedar Falls

Unless otherwise noted, all analytes for this laboratory were covered under each certification below.

| uthority               | Program                         |  | EPA Region                       | Certification ID | Expiration Date |  |
|------------------------|---------------------------------|--|----------------------------------|------------------|-----------------|--|
| wa                     | State Prog                      | gram                                   | 7                                | 007              | 12-01-17        |  |
| The fellowing englytes |                                 |  |                                  |                  |                 |  |
| The following analytes | are included in this report, bu | at certification is not offer          | red by the governing a           | authority:       |                 |  |
| Analysis Method        | Prep Method                     | ut certification is not offe<br>Matrix | red by the governing a<br>Analyt | •                |                 |  |
|                        | • •                             |  | , , ,                            | te               |                 |  |

## Laboratory: TestAmerica Nashville

The certifications listed below are applicable to this report.

| Authority | Program       | EPA Region | Certification ID | <b>Expiration Date</b> |
|-----------|---------------|------------|------------------|------------------------|
| Iowa      | State Program | 7          | 131              | 04-01-18               |

# **Method Summary**

Client: Clayton County Recycling

Project/Site: 051016 PM

TestAmerica Job ID: 310-80723-1

| Method  | Method Description                                     | Protocol | Laboratory |
|---------|--|----------|------------|
| 8082A   | Polychlorinated Biphenyls (PCBs) by Gas Chromatography | SW846    | TAL CF     |
| 6010C   | Metals (ICP)   | SW846    | TAL CF     |
| 7470A   | Mercury (CVAA)   | SW846    | TAL CF     |
| 9023    | Organic Halides, Extractable (EOX)                     | SW846    | TAL NSH    |
| 9045D   | pH   | SW846    | TAL CF     |
| D240-87 | Heat of Combustion                                     | ASTM     | TAL NSH    |
| D92     | Flashpoint   | ASTM     | TAL CF     |

## **Protocol References:**

ASTM = ASTM International

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

## Laboratory References:

TAL CF = TestAmerica Cedar Falls, 704 Enterprise Drive, Cedar Falls, IA 50613, TEL (319)277-2401

TAL NSH = TestAmerica Nashville, 2960 Foster Creighton Drive, Nashville, TN 37204, TEL (615)726-0177





# Cooler/Sample Receipt and Temperature Log Form

| Client Information   | 1.30mm 1.30mm 1.30mm 1.30mm 1.30mm 1.30mm 1.30mm 1.30mm 1.30mm 1.30mm 1.30mm 1.30mm 1.30mm 1.30mm 1.30mm 1.30mm  |
|--|--|
| Client: Charton Co.  | Recurbing.   |
| City/State:  | Project:   |
| Receipt Information  | SCHOOL SC |
| Date/Time Received:5-17-16 09  | 2 102 - 10 H 4 10 - 3  |
| Delivery Type: UPS  FedEx  | FedEx Ground US Mail Spee-Dee  |
| TA Courier TA Field Ser  |  |
| Condition of Cooler/Containers   | TRANSPORTED TO THE PROPERTY OF |
| Sample(s) received in Cooler?  | No If yes: Cooler ID: in box   |
| Multiple Coolers? Yes  | No If yes: Cooler # of   |
| Cooler Custody Seals Present? Yes  | No If yes: Cooler custody seals intact? Yes No   |
| Sample Custody Seals Present? Yes  | No If yes: Sample custody seals intact? Yes No   |
| Trip Blank Present?  | No If yes: Which VOA samples are in cooler? ↓  |
| Coolant: Wet ice Blue ice  Temperature Blank? Yes No  Note: If yes, use temp blank for measurement.  Thermometer ID: | Dry ice Other: NONE  ID & Bottle Type: Cacaca  If no, specify sample ID(s) and bottle type used to take measurement.  Correction Factor (°C):  |
| Uncorrected Temp (°C): 20.0°C  | Corrected Temp (°C):   |
| Exceptions Noted   | Water was Market to a substitute and the train of the substitute and   |
| If temperature exceeds criteria, was sample     a) If yes: Is there evidence that the chilling                       |  |
| (e.g., bulging septa, broken/cracked bottles   |  |
| NOTE: If yes, contact PM before proceeding. If no, pr  | The Address of the control of the co |
| Additional Comments  |  |
|  |  |
|  |  |
|  |  |
|  |  |

Document: CF-LG-WI-002

Revision: 21 Date: 7/28/2015

|                                  |            |                      |                   |                          |                       | Cerrecucliny.com  | 1            | Fex Results<br>Send QC with report             |          |          |          |     |  | Time                                   |                     |           |
|----------------------------------|------------|----------------------|-------------------|--------------------------|-----------------------|-------------------|--------------|--|----------|----------|----------|-----|--|--|---------------------|-----------|
|                                  |            |                      |                   |                          |                       | 3                 | _[           | etiluseA lism∃                                 |          |          | VII-III- |     |  |  | 7                   |           |
| 5                                |            |                      |                   |                          | 5                     | 2                 | _ [          | TAT brebrist2                                  |          |          |          |     |  | Date                                   | 11                  |           |
| ~                                |            |                      |                   |                          | 4757                  | 7                 |              | (Ibsaris liso taum) TAT HRUR                   |          |          |          |     |  |  | 11                  |           |
| 1-                               |            |                      |                   |                          | 7                     | 7                 | - 1          |  |          |          |          |     |  |  | 11                  |           |
| O.                               |            |                      |                   | 9                        | 1                     | CC                | 1            |  | $\vdash$ | +        | +        | -   |  |  | 11                  | - 1       |
| Sidile                           |            |                      | Ш                 | 5                        | 34                    | >                 | 1            |  |          |          |          | 1   |  |  | 11                  | - 1       |
| -                                |            |                      |                   | N                        | S                     | j                 |              |  |          |          |          |     |  |  | 11                  |           |
| 0                                |            |                      |                   | -1                       | 'n                    |                   | è            |  |          |          |          |     |  |  | 11                  |           |
|                                  |            |                      |                   | 8                        | 9                     | @                 | 92           | Hd   | X        | +        |          |     |  |  | 14                  |           |
| 10                               |            |                      |                   | 1                        | 3                     | gena              | Analyze For  |  | -        | +        | +        | +-  |  |  | 11                  | . 1       |
| Fax: 319-2/7-2425  Your PO #: 05 |            |                      |                   | C                        |                       | 3                 | 4            | 7,17g  | 9        |          |          |     |  | Š                                      | 11                  | 1         |
| 0                                | 1          |                      |                   |                          | J. J.                 | 9                 | PL           | 4H10147  | X        |          |          |     |  | Refinquished by:                       | jej                 |           |
|                                  |            |                      | Fe                | ger.                     | pho                   | 岩                 | lſ           | to some of                                     | 0        |          |          |     |  | TE THE                                 | Shipped Via:        |           |
| 2 4                              | #          | Ë                    | đ.                | anaç                     | Tele                  | Ë                 | lt           | गुटार क्रास्ट्राट                              | *        | -        |          | ++- |  |  | iĝ                  |           |
|                                  | e e        | ž                    | ž                 | ¥                        | g.                    | g.                | 1            |  |          |          |          | ++  | 21 V   |  | S                   | 1         |
| Your PO #:                       | TA Quote # | Project Name:        | Project Number:   | Project Manager.         | Proj. Mgr. Telephone: | Proj. Mgr. Email: |              | क्षा व   | 列        | 016      |          |     |  | me                                     |                     | ,         |
| ِي ج<br><u>ج</u>                 | ¥          | 품                    |                   | E.                       | 5                     | Pre               |              | lio  |          |          |          |     |  | -                                      | aboratory Comments: |           |
|                                  |            |                      | 33                |                          |                       |                   |              | lio8   |          |          |          |     |  | 0                                      |                     |           |
|                                  |            |                      | 13                |                          |                       |                   | Matrix       | egbula   |          |          |          |     |  | Date                                   |                     | 3         |
|                                  |            | 10                   | 47                |                          |                       |                   | \$           | Orinking Water                                 |          |          |          |     | 46   |  |                     | <u> </u>  |
|                                  |            |                      |                   |                          | l V                   |                   |              | TatewetasW                                     |          |          |          |     | NOTES:   |  |                     | <u>5</u>  |
| 30                               | 7          |                      | Fax 5203-539.     |                          |                       |                   |              | 1978wbruon 6                                   |          |          |          |     | 2  |  | 4                   | 4         |
| acyclin                          |            |                      | 3                 |                          |                       |                   |              | Other ( Specify)                               |          |          |          | 4   |  |  | 11                  |           |
| -7                               | 1          | 0                    | 3                 |                          |                       |                   |              | None (Black & White Label)                     |          |          |          |     |  |  | 11                  | 1         |
| 7                                | 1          | S                    | 9                 |                          |                       | 1                 | Ne le        | H <sub>2</sub> SO, Gises(Yellow & White Label) |          |          |          |     |  |  | 11                  |           |
| 3                                | 1 1        | 7                    | S                 |                          |                       |                   | Preservative | H2504 Plactic (Yellow & White Label)           |          |          |          |     | ] <b>=</b> .   | ľ.                                     | 1                   | 4         |
| 9                                | 1 3        | 531                  | ä                 |                          |                       |                   | Sel          | (Nadal eliftw & egnsto ) Hosk                  |          |          |          |     | § 5  |  | Į į                 | <u> </u>  |
| 2                                |            | (A)                  | IL.               | . 1                      |                       |                   | 2            | HCI (Blue & White Label)                       |          |          |          |     | e se   |  | l a                 | 2         |
|                                  | 1          |                      |                   |                          |                       |                   |              | HNO <sub>s</sub> (Red & White Label)           |          |          |          |     | ders ass   |  | 1 2                 | 3         |
| 3:                               | 7 2        |                      |                   |                          |                       |                   |              | 90)  |          |          |          |     | F 52 .   | š                                      | 8                   | <u> </u>  |
| 7                                | 3          | J                    |                   |                          |                       |                   | $\neg$       | Peleli Filtered                                |          |          |          |     |  | B                                      | Comments:           | <u> </u>  |
| 30                               | 4-         | 1                    | 17                | de                       |                       |                   | ŀ            |  | -        | +        | +        | +   | S S S  | 8                                      | E                   |           |
| B 83                             | 1 -        | H                    | 15                | 8                        | V                     |                   | -            | Composite                                      |          | $\dashv$ |          | -   | St Contract  | <u> </u>                               | 8                   | 3         |
| S C 58                           | 3          |                      | 1                 | 7                        | 3                     |                   |              | Grab   |          |          |          |     | ch of s  |  |                     | " KN      |
| ₹ 0                              | 1          |                      | J                 | J                        | 7                     |                   |              | # of containers shipped                        |          |          |          |     | pri a  | E                                      | 1                   |           |
| # d(r                            | 300        | d                    | 1                 | (-                       | 3                     |                   |              | haddida magistach to th                        |          |          |          |     | Hor Hor  |  | J [                 | 07        |
| Ceder Falls, IA 5061             | 1          | 5                    | 2                 |                          | A                     |                   | П            |  |          |          |          |     | A Se de  |  | 7 (                 | 25        |
| Cedar Falls, IA 5061             | V          | 14                   | S                 | 0                        | X                     |                   |              | belqms2 smiT                                   |          |          | 111      | 1 1 | ST ST  |  |                     | 7         |
| ه ۲                              | 11645      | Monda                | 563-53            | Fred                     | 1                     |                   | ŀ            |  |          |          | ++       |     | Per F  | Sate                                   | 190                 | 11        |
| $\exists$                        | 19         | 2                    | 9                 | H                        | W                     |                   | - 1          | Date Sampled                                   |          |          |          |     | 문구들장   |  |                     | 1/2       |
| 0                                | =          | >                    | S                 |                          | y,                    |                   | - [          |  |          |          |          |     | fron the Land  |  |                     | 01        |
| ( ° ≥ °                          | , si       | نق                   |                   | 9                        | ē                     |                   | 1            |  |          |          |          |     | To make  |  | 71                  |           |
| T La                             | Address:   | S                    | ğ                 | Nam-                     | atri                  |                   |              |  |          | -11      | 11       | 11  | the period   |  | 11                  |           |
| Company.                         | A          | City/State/Zip Code: | Telephone Number: | Sampled by: (Print Name) | (Signature)           |                   |              |  |          |          |          |     | NOTE: All turn around times are calculated from the time of receipt at TestAmerica.  NOTCE: Pre-Arrangements must be made ATLEAST 48 Hours in ADVANCE to receive results with RUSH turn around time commitments; additional charges may be assessed.  NOTE: There may be a charge assessed for TestAmerica disposing of sample remainders. | Reimquished by: Date Time Received by: |                     | 8         |
|                                  |            | rte/                 | ono               | 9                        | ా                     |                   |              |  |          |          |          |     | E D B  |  | 0                   | . 9       |
| ): <u> </u>                      |            | SES                  | Š                 | by:                      |                       |                   |              |  |          |          |          |     | es c   | 1                                      |                     | . 3       |
| - "                              |            | Ŕ                    | Tek               | Peg                      |                       |                   |              |  |          |          |          |     | 等 華 華 经  |  | 5                   | 8         |
| Company Send Report To           |            |                      | , -               | d E                      |                       |                   |              |  |          |          |          |     | SH B   |  | 1 3                 | 24        |
|                                  |            |                      |                   | S                        |                       |                   |              |  |          |          |          |     | RU SE  | 1                                      | 14                  |           |
|                                  |            |                      |                   |                          |                       |                   |              |  |          |          |          |     | E & E  | Š                                      | 1                   | Cent less |
|                                  |            |                      |                   |                          |                       |                   |              | 0  |          |          |          |     | 当年 > 9   | Relinquished by:                       | ,eg                 | E C       |
| <                                |            |                      |                   |                          |                       |                   |              | Sample ID                                      |          |          |          |     | NOTE: A<br>NOTICE:<br>NOTE: T  | 亶                                      |                     | 8 3       |
|                                  |            |                      |                   |                          |                       |                   |              | Œ.   | 1 1      |          |          |     |  | Ę                                      | Shipped             | 8         |
| 7                                |            |                      |                   |                          |                       |                   | 1            | S  |          | 0.12.3   |          |     | žž ž   | 2                                      | S                   |           |

|                         | Chain of Custody Docard | Chair of Custouy Recolu |
|-------------------------|-------------------------|-------------------------|
| TestAmerica Cedar Falls | 704 Enterprise Drive    | Codar Ealle 10 50612    |

Test-America THE STABLE WAS INCOMENCED. THE TABLES 医師 はないはられるないのないないないがればいるないにない

> Phone (319) 277-2401 Fax (319) 277-2425 704 Enterprise Drive

M - Hexane
N - None
O - AsNaO2
P - Na2O4S
Q - Na2O4S
R - Na2SQ3
S - R- Na2SQ3
S - F2SO4
T - TSP Dodecahydrate
U - Acetone
V - McAA
W - ph 4-5
Z - other (specify) Special Instructions/Note: 80723 Months Company Loc: 310 Sample Disposal ( A fee may be assessed if samples are retained longer than 1 month)

Return To Client Disposal By Lab Archive For Mon Preservation Codes: A - HCL
B - NaOH
C - Zn Acetate
D - Nitric Acid
E - NahSO4
F - MeOH
G - Amchlor
H - Ascorbic Acid 9:40 310-80723-1 GOC No: 310-6804.1 Page 1 of 1 I - Ice J - DI Water K - EDTA L - EDA Date/Time: Date/Time: Total Number of containers 1 Date/Time: Nethod of Shipment arrier Tracking No(s): Analysis Requested Cooler Temperature(s) °C and Other Remarks: Special Instructions/QC Requirements: Lab PM:
Brown, Shali
E-Mai:
shali.brown@testamericainc.com Received by: 9023/9023\_Prep EOX × O240\_87\_NP/ Heat of Combustion × Field Filtered Sample (Yes ov No) Preservation Code: Matrix Solid (W=water, S=solid, O=wasteloil Company Сотралу Сопрапу Type (C=comp, G=grab) Sample Sample Central Time Date: TAT Requested (days): Due Date Requested: 5/27/2016 Sample Date 18/ 5/10/16 Project #. 31001320 SSOW#: Date/Time: 30 # WO# Deliverable Requested: I, II, III, IV, Other (specify) Client Information (Sub Contract Lab) Custody Seal No.: Sample Identification - Client ID (Lab ID) Phone: 615-726-0177(Tel) 615-726-3404(Fax) Possible Hazard Identification TestAmerica Laboratories, Inc Address: 2960 Foster Creighton Drive, Empty Kit Relinquished by: 051016 PM (310-80723-1) Custody Seals Intact: A Yes A No Shipping/Receiving elinquished by: linquished by: linquished by: Unconfirmed Project Name: 051016 PM State, Zip: TN, 37204 Nashville

.



## **COOLER RECEIPT FORM**

| Cooler Received/Opened On 5/19/2016 @ 0940  |                 |
|---|-----------------|
| Time Samples Removed From Cooler Time Samples Placed In Storage   | (2 Hour Window) |
| 1. Tracking #(last 4 digits, FedEx) Courier: _FedEx_  |                 |
| IR Gun ID 14740456 pH Strip Lot HC564992 Chlorine Strip Lot 040715C                                     |                 |
| 2. Temperature of rep. sample or temp blank when opened: 12 Degrees Celsius                             |                 |
| 3. If Item #2 temperature is $0^{\circ}$ C or less, was the representative sample or temp blank frozen? | YES NONA        |
| 4. Were custody seals on outside of cooler?   | YES. NONA       |
| If yes, how many and where:   |                 |
| 5. Were the seals intact, signed, and dated correctly?  | YESNO NA        |
| 6. Were custody papers inside cooler?   | YESNONA         |
| I certify that I opened the cooler and answered questions 1-6 (intial)                                  | ance            |
| 7. Were custody seals on containers: YES NO and Intact  | YESNONA         |
| Were these signed and elated-sorrectly?   | YESNO.NA        |
| 8. Packing mat'l used? Bubblewrap Plastic bag Peanuts Vermiculite Foam Insert Papel                     | Other None      |
| 9. Cooling process:   | Other None      |
| 10. Did all containers arrive in good condition (unbroken)?   | YES NONA        |
| 11. Were all container labels complete (#, date, signed, pres., etc)?                                   | YESNONA         |
| 12. Did all container labels and tags agree with custody papers?  | YESNONA         |
| 13a. Were VOA vials received?   | YESNONA         |
| b. Was there any observable headspace present in any VOA vial?  | YESNO(NA        |
| 14. Was there a Trip Blank in this cooler? YES, NO. NA If multiple coolers, sequence                    | ce #            |
| I certify that I unloaded the cooler and answered questions 7-14 (Intial)                               |                 |
| 15a. On pres'd bottles, did pH test strlps suggest preservation reached the correct pH level?           | YES NO(NA)      |
| b. Did the bottle labels indicate that the correct preservatives were used                              | YESNO.(.NA)     |
| 16. Was residual chiorine present?  | YESNO.(NA)      |
| I certify that I checked for chlorine and pH as per SOP and answered guestions 15-16 (Intial)           | CVW .           |
| 17. Were custody papers properly filled out (lnk, signed, etc)?   | YES NONA        |
| 18. Did you sign the custody papers in the appropriate place?   | YES NONA        |
| 19. Were correct containers used for the analysis requested?  | YES NONA        |
| 20. Was sufficient amount of sample sent in each container?   | YES NONA        |
| I certify that I entered this project into LIMS and answered questions 17-20 (intial)                   | _ KD            |
| certify that I attached a label with the unique LIMS number to each container (intial)                  | ED.             |
| 21. Were there Non-Conformance issues at login? YES(NO) Was a NCM generated? YES(                       | vg#             |

# Login Sample Receipt Checklist

Client: Clayton County Recycling

Job Number: 310-80723-1

Login Number: 80723

List Source: TestAmerica Cedar Falls

List Number: 1

Creator: Facciani, Melene K

| Question  | Answer | Comment   |
|---|--------|---|
| Radioactivity wasn't checked or is = background as measured by a survey meter.</td <td>N/A</td> <td></td> | N/A    |   |
| The cooler's custody seal, if present, is intact.   | N/A    |   |
| Sample custody seals, if present, are intact.   | N/A    |   |
| The cooler or samples do not appear to have been compromised or tampered with.                            | True   |   |
| Samples were received on ice.   | False  | received in box                                     |
| Cooler Temperature is acceptable.   | False  |   |
| Cooler Temperature is recorded.   | True   |   |
| COC is present.   | True   |   |
| COC is filled out in ink and legible.   | True   |   |
| COC is filled out with all pertinent information.   | False  | no ID, date or time on coc Used PO#                 |
| Is the Field Sampler's name present on COC?   | True   |   |
| There are no discrepancies between the containers received and the COC.                                   | True   |   |
| Samples are received within Holding Time (excluding tests with immediate HTs)                             | True   |   |
| Sample containers have legible labels.  | True   |   |
| Containers are not broken or leaking.   | True   |   |
| Sample collection date/times are provided.  | True   |   |
| Appropriate sample containers are used.   | True   |   |
| Sample bottles are completely filled.   | True   |   |
| Sample Preservation Verified.   | True   |   |
| There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs                          | True   |   |
| Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").                           | True   |   |
| Multiphasic samples are not present.  | True   |   |
| Samples do not require splitting or compositing.  | False  | Sample splitting required for subcontract purposes. |
| Residual Chlorine Checked.  | N/A    |   |

## Login Sample Receipt Checklist

Answer

Comment

Client: Clayton County Recycling

Job Number: 310-80723-1

Login Number: 80723 List Number: 2

Creator: Dawson, Keith M

List Source: TestAmerica Nashville

List Creation: 05/19/16 03:05 PM

Question

Radioactivity wasn't checked or is </= background as measured by a survey meter.

The cooler's custody seal, if present, is intact.

Sample custody seals, if present, are intact.

The cooler or samples do not appear to have been compromised or tampered with.

Samples were received on ice.

Cooler Temperature is acceptable.

Cooler Temperature is recorded.

COC is present.

COC is filled out in ink and legible.

COC is filled out with all pertinent information.

Is the Field Sampler's name present on COC?

There are no discrepancies between the containers received and the COC.

Samples are received within Holding Time (excluding tests with immediate HTs)

Sample containers have legible labels.

Containers are not broken or leaking.

Sample collection date/times are provided.

Appropriate sample containers are used.

Sample bottles are completely filled.

Sample Preservation Verified.

There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs

Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").

Multiphasic samples are not present.

Samples do not require splitting or compositing.

Residual Chlorine Checked.



September 2, 2016

Clayton County Recycling 11645 Echo Avenue Monona, IA 52129-0607

Attn:

Ms. Gina Roys, Controller

Re:

Special Waste Approval Letter

Dear Ms. Roys:

We are pleased to advise that the special waste listed below was recertified on 09/02/16 for disposal at the Glacier Ridge Landfill. The attached profile is your documentation that verifies this waste stream is not a hazardous or unauthorized waste and also verifies approval to accept this waste stream by the Glacier Ridge Landfill as indicated by the signature of our approvals department and our general manager. The waste approval is valid as follows:

Generator:

Clayton County Recycling

Address of Waste Generated:

11645 Echo Avenue, Monona, IA 52129

Waste Stream:

Fluff, Shredded Auto Residue

Waste Category:

26A

**Profile Number:** 

GRL 07027

Profile Recertification Date:

11/30/16

Waste Disposal Method:

Direct

Please note the special conditions for acceptance are as follows:

- 1. Each load must have a manifest signed by an authorized representative or agent of Clayton County Recycling accompanying the waste for disposal.
- 2. Any change in process or waste stream voids this approval. New waste will need to be profiled, including new chemical analysis and/or MSDS if applicable, and submitted for review and approval prior to acceptance.
- 3. All loads must be properly tarped and hauled by a licensed transporter.

We greatly appreciate the confidence and trust you have placed in selecting Glacier Ridge Landfill to manage your disposal needs. As an additional note, we have fulfilled all Wisconsin DNR regulations and our landfill meets or exceeds the design, construction, and operating standards promulgated under 40 CFR 258.

If you have questions or need assistance with additional waste disposal, please do not hesitate to contact us at (920) 387-0987.

Sincerely,

ADVANCED DISPOSAL SERVICES GLACIER RIDGE LANDFILL, LLC

Javne Fae Walter

Administrative Assistant

JFW/smr Attachment

# Advanced Disposal Services Glacier Ridge Landfill Street Address: N7296 Hwy V

City, State, Zip: Horldon, WI 53032



| Telephone:   | 920-387-0   | 987  |                          |   |  |       |      |
|--|-------------|--|--------------------------|---|--|-------|------|
|  |             | WAS  | TE PROF                  | ILE SHEET   |  |       |      |
| Designated Faci  | lity: Gla   | cier Rid <b>ge Landfill -</b> WI   |                          | Örlginal Sub<br>Recertific<br>One Time P                              | file #: GRL 07027 mittal: O Yes O No eation: ③ Yes O No roject: O Yes O No tative: Floyd Leo |       |      |
| A. Generator<br>Name:<br>Sile Address:<br>City, State, Zip:<br>Contact:<br>Phone:<br>Fax:                              | 11645 Ed    | 1-4757   |                          | B. Billing Name: Site Address: City, Stele, Zip: Contect: Phone: Fax: |  |       |      |
| C. Waste Stree<br>Waste Name:<br>Process Gener   | Auto Shr    | edder Fluff  | Version de la constant   |   |  |       |      |
| Method of Ship<br>Estimated Annu<br>Frequency:<br>Special Handlin  | ual Volum   | O Bagged O Drum  C Cubic Yards O One Time © Dally                                | O Weekly                 | ⊙ Tons  | O Other  |       |      |
| D. Sample/And<br>Is the represent<br>with U.S. EPA   | tative san  | ormation<br>uple collected to prepare this p<br>31,20 (c) guidelines or equivale | rofile and lakent rules? | poratory analysis co  | ollected in accordance   | O Yes | O No |
| Check all that a   | mitted wi   | h profile 🔳 Laboratory Ana   |                          |   | ata Sheet aubmitted  |       |      |
| E, Waste Cha   |             |  |                          |   |  |       |      |
| Physical States<br>Color:<br>Free Liquids:<br>Flash Point:<br>pH:<br>Total Solids:<br>Reactive Cyan<br>Reactive Sulfin | nide:       |  |                          | anded for this was  | ile is attached.   | O Yes | Ó No |
| Laboratory an  | alytical ar | d/or SDS including required pa   | aramete <i>r</i> s pr    | avided in this biol   | IIO to gradulasi   |       |      |

Landfill initials:

|  | O Yes | No     No |
|--|-------|--|
| Is this waste a hazardous waste as defined by Federal, State or local laws and regulations?  |       |  |
| Does this waste contain regulated concentrations of Polychlorinated Biphenyls (PCBs) as defined in 40 CFR Part 761?  | ○ Yes | O No   |
| is this waste a characteristically hazardous waste as defined in 40 CFR 261,20 - CFR 261,24?   | O Yes | No     No |
| Does this waste or generating process contain regulated concentrations of the following pesticides and/or herbicides; Chiordane, Endrin, Heptachlor (and its epoxides), Lindane, Methoxychlor, Toxaphene, 2,4-D, 2,4,5-T Silvex as defined in 40 CFR 261.33?   | ○ Yes | No   |
| Does this waste contain regulated concentrations of listed hazardous wastes defined by 40 CFR 261.31, 261.32, 261.33, including RCRA F-Listed solvents?  | O Yes | No     No |
| Does this waste contain regulated concentrations of 2,3,7,8-Tetrachlorodibenzodioxin (2,3,7,8-TCCD) or any other dioxin as defined in 40 CFR261.31?  | O Yes | No     No |
| is this a regulated Medical or infectious Waste as defined by Federal and/or State regulations?  | O Yes | ® No   |
| is this a regulated Toxic Material as defined by Federal and/or State regulations?   | O Yes | Na     Na |
| is this waste generated at a Federal Superfund Clean-up Site?  | O Yes | No     No |
| Does this waste generate fugitive dust?  | Q Yes | No     No |
| is this waste hot or capable of generating heat?   | O Yes | No     No  |
| Is this waste subject to UST Corrective Action Regulations under CFR 280?  | О Хөв | ® No   |
| Is this a regulated Radioactive Waste as defined by Federal and/or State regulations? Furthermore, this waste does not contain nor is derived from the processing, solidification or treatment of naturally occurring radioactive material (NORM) or technologically enhanced naturally occurring radioactive material (TENORM) as defined under any State, local or federal laws. | ○ Yes | No     No |
| (TENENIA) CO   | Q Yes | O No   |
|  | ○ Yes | o No   |
| Other Waste Data or Comments.  |       |  |
|  |       |  |

|  | <del> </del>   |
|--|--|
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
| 2:   |  |
| 1  | The state of the s |
|  | dinance of the second s |
| erator Certification   | In this and all attached documents contain true and accurate descriptions  |
| e waste. This waste is not a hazardous waste as defin<br>garding known or suspected hazards in the possessio |  |
| garding known or suspected hazards in the possession   | Controller   |
| enerator Signature   | CONTIDIL EX<br>TILLO 8-31-16   |
| Gina Row   | •  |
| rinled Name  | Date   |

my behalf.

My approval is based upon the laboratory analysis of a representative sample and/or safety data sheets submitted by the generator. All State and/or third party reviews and approvals are obtained and maintained on file. Receipt of waste is in full compliance of internal policies partaining to waste acceptance and all pertinent permits and host agreement(s).

|   | Manager and the second  | O No   |
|---|--|--------|
| State and/or third party reviews and approvals obtained and attached to p               | rofile? • Yes  | O No   |
| s employee training exclusive to this waste stream required for the proper<br>material? | handling and disposal of the O Yes   | ■ No   |
| Specify what training exclusive to this waste stream is required and for wi             | sich employees:  |        |
|   |  |        |
| Is employee PPE exceeding the minimum requirements needed for the p<br>waste stream?    | The second secon | i ♠ No |
| Specify what additional PPE is required and to which employees the add                  | itional PPE is to be provided:   |        |
|   |  |        |
| / /   |  |        |
| andfill Approva   | Coneral Manager  | :      |
| andfil Signature  | 09-12-16   |        |
| Printed Name  | Dete   |        |
| evel Of Authority Approval  | 8  |        |
|   | Title  |        |
| Approver Signature  | Tillo  |        |
| Printed Name  | Date   |        |
| Third Party Reylew  | 1100   |        |
|   | Afrov14/<br>Title 5-2-16   |        |
| Approver Signature Tiny Suhol   | 9-2-16   |        |
| Printed Name  | Dale   |        |

| 1 | andfill (lead for Disposal: | Glacler | Ridge | Landfill |
|---|-----------------------------|---------|-------|----------|
|---|-----------------------------|---------|-------|----------|

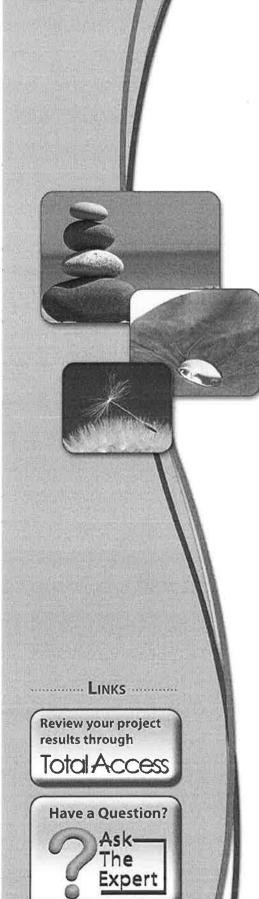
Generator Name: Clayton County Recycling P
Waste Name: Auto Shredder Fluff

Profile Number: GRL 07027



# Certification Checklist

| Has completed profile been submitted including the following:                                       | Yes | No | N/A |
|---|-----|----|-----|
| Generator Name and Address  | 2   | 0  | 0   |
| Acceptable Waste Name and Process Generaling the Waste  | Ø   | 0  | 0   |
| Waste Is Non-Hazardous  | Ø_  | 0  | 0   |
| Acceptable Composition and Physical Characteristics   | Ó   | 0  | 0   |
| Complete Sample Information and/or SDSs   | 0   | 0  | 0   |
| Properly Signed by the Generator  | 6   | 0  | ٥   |
| State Approval Required and Granted   | 0   | 0  | Ø   |
| Veste Category:  Recertification Date:  11-31-14  Parameters to be Tested:  Conditions of Approval: |     |    |     |



Visit us at:

www.testamericainc.com

# **TestAmerica**

THE LEADER IN ENVIRONMENTAL TESTING

# **ANALYTICAL REPORT**

TestAmerica Laboratories, Inc. TestAmerica Cedar Falls 704 Enterprise Drive Cedar Falls, IA 50613 Tel: (319)277-2401

TestAmerica Job ID: 310-87648-1 Client Project/Site: 081616 PM

For: Clayton County Recycling 11645 Echo Avenue PO BOX 861 Monona, Iowa 52159

Attn: Gina Roys

Authorized for release by: 8/31/2016 2:32:16 PM

Shali Brown, Project Manager II (615)301-5031 shali.brown@testamericainc.com

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

**Table of Contents** 

| Cover Page              | Í  |
|-------------------------|----|
| Table of Contents       | 2  |
| Case Narrative          | 3  |
| Sample Summary          | 1  |
| Client Sample Results 5 | 5  |
| Chronicle               | 7  |
| Definitions             | 3  |
| Certification Summary   | )  |
| Method Summary          | 10 |
| Chain of Custody        | 11 |
| Receipt Checklists      | 15 |

# **Case Narrative**

Client: Clayton County Recycling Project/Site: 081616 PM

TestAmerica Job ID: 310-87648-1

Job ID: 310-87648-1

Laboratory: TestAmerica Cedar Falls

Narrative

Job Narrative 310-87648-1

# Comments

No additional comments.

## Receipt

The sample was received on 8/22/2016 8:50 AM; the sample arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 20.6° C.

## Except

Sample was received at the laboratory outside the required temperature criteria and without a sample ID, collection date or collection time listed on the chain of custody.

# GC Semi VOA

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

# Metals

Method(s) 200.7 Rev 4.4, 6010C: The following sample was diluted due to the presence of an interferent: 081616 PM (310-87648-1). Elevated reporting limits (RLs) are provided.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

## General Chemistry

Method(s) D92: Sample was collected in an improper container.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

# Organic Prep

Method(s) 3550B: Elevated reporting limits are provided for the following sample due to insufficient sample provided for preparation: 081616 PM (310-87648-1).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

TestAmerica Cedar Falls 8/31/2016

# Sample Summary

Client: Clayton County Recycling Project/Site: 081616 PM

TestAmerica Job ID: 310-87648-1

| Lab Sample ID | Client Sample ID | Matrix | Collected      | Received       |
|---------------|------------------|--------|----------------|----------------|
| 310-87648-1   | 081616 PM        | Solid  | 08/16/16 00:00 | 08/22/16 08:50 |







# **Client Sample Results**

Client: Clayton County Recycling

Project/Site: 081616 PM

TestAmerica Job ID: 310-87648-1

Lab Sample ID: 310-87648-1

Matrix: Solid

Client Sample ID: 081616 PM

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography - TCLP

Date Collected: 08/16/16 00:00 Date Received: 08/22/16 08:50

| Analyte                          | Result    | Qualifier | RL       | MDL | Unit | D | Prepared       | Analyzed       | Dil Fac |
|----------------------------------|-----------|-----------|----------|-----|------|---|----------------|----------------|---------|
| PCB-1016                         | <3.20     |           | 3.20     |     | ug/L |   | 08/24/16 13:58 | 08/30/16 18:32 | 1       |
| PCB-1221                         | <3.20     |           | 3.20     |     | ug/L |   | 08/24/16 13:58 | 08/30/16 18:32 | 1       |
| PCB-1232                         | <3.20     |           | 3.20     |     | ug/L |   | 08/24/16 13:58 | 08/30/16 18:32 | 1       |
| PCB-1242                         | <3.20     |           | 3.20     |     | ug/L |   | 08/24/16 13:58 | 08/30/16 18:32 | 1       |
| PCB-1248                         | <3.20     |           | 3.20     |     | ug/L |   | 08/24/16 13:58 | 08/30/16 18:32 | 1       |
| PCB-1254                         | <3.20     |           | 3.20     |     | ug/L |   | 08/24/16 13:58 | 08/30/16 18:32 | 1       |
| PCB-1260                         | <3.20     |           | 3.20     |     | ug/L |   | 08/24/16 13:58 | 08/30/16 18:32 | 1       |
| PCB-1268                         | <3.20     |           | 3.20     |     | ug/L |   | 08/24/16 13:58 | 08/30/16 18:32 | 1       |
| Polychlorinated biphenyls, Total | <3.20     |           | 3.20     |     | ug/L |   | 08/24/16 13:58 | 08/30/16 18:32 | 1       |
| Surrogate                        | %Recovery | Qualifler | Limits   |     |      |   | Prepared       | Analyzed       | Dil Fac |
| DCB Decachlorobiphenyl (Surr)    | 43        | -         | 10 - 110 |     |      |   | 08/24/16 13:58 | 08/30/16 18:32 | 1       |
| Tetrachloro-m-xylene             | 66        |           | 10 - 110 |     |      |   | 08/24/16 13:58 | 08/30/16 18:32 | 1       |

| Analyte                 | Result        | Qualifier | RL      | MDL | Unit | D | Prepared       | Analyzed       | Dil Fac |
|-------------------------|---------------|-----------|---------|-----|------|---|----------------|----------------|---------|
| Arsenic                 | <0.600        |           | 0.600   |     | mg/L |   | 08/25/16 10:00 | 08/26/16 15:23 | 2       |
| Barium                  | <1.00         |           | 1.00    |     | mg/L |   | 08/25/16 10:00 | 08/26/16 15:23 | 2       |
| Cadmlum                 | 0.0511        |           | 0.0400  |     | mg/L |   | 08/25/16 10:00 | 08/26/16 15:23 | 2       |
| Chromium                | <0.0400       |           | 0.0400  |     | mg/L |   | 08/25/16 10:00 | 08/26/16 15:23 | 2       |
| Lead                    | 0,517         |           | 0.200   |     | mg/L |   | 08/25/16 10:00 | 08/26/16 15:23 | 2       |
| Selenium                | <0.300        |           | 0.300   |     | mg/L |   | 08/25/16 10:00 | 08/26/16 15:23 | 2       |
| Silver                  | <0.0400       |           | 0.0400  |     | mg/L |   | 08/25/16 10:00 | 08/26/16 15:23 | 2       |
| Method: 7470A - Mercury | (CVAA) - TCLP |           |         |     |      |   |                |                |         |
| Analyte                 | Result        | Qualifier | RL      | MDL | Unit | D | Prepared       | Analyzed       | DII Fac |
| Mercury                 | <0.00200      |           | 0,00200 |     | mg/L |   | 08/24/16 13:32 | 08/26/16 12:35 | 1       |

| Mercury                      | 40,00200 |           | 0,00200 |    | mg/L      |   | 00/24/10 15.52 | 00/20/10 12.50 |         |
|------------------------------|----------|-----------|---------|----|-----------|---|----------------|----------------|---------|
| General Chemistry<br>Analyte | Result   | Qualifler | RL      | RL | Unit      | D | Prepared       | Analyzed       | DII Fac |
| вти                          | 5470     |           | 200     |    | BTU/lb    |   |                | 08/25/16 13:30 | 1       |
| Flashpoint                   | >215     |           | 40.0    |    | Degrees F |   |                | 08/24/16 15:44 | 1       |
| General Chemistry - Soluble  |          |           |         |    |           |   |                |                |         |
| Analyte                      | Result   | Qualifler | RL      | RL | Unit      | D | Prepared       | Analyzed       | DII Fac |
| Hq                           | 8.1      | HF        | 0.1     |    | SU        |   |                | 08/23/16 14:56 | 1       |

Client Sample ID: 081616 PM Lab Sample ID: 310-87648-1

 Date Collected: 08/16/16 00:00
 Matrix: Solid

 Date Received: 08/22/16 08:50
 Percent Solids: 87.1

| Analyte  | Result | Qualifier | RL    | MDL | Unit  | D      | Prepared       | Analyzed       | DII Fac |
|----------|--------|-----------|-------|-----|-------|--------|----------------|----------------|---------|
| PCB-1016 | <0.502 | -         | 0.502 |     | mg/Kg | 共      | 08/22/16 12:27 | 08/30/16 13:35 | 1       |
| PCB-1221 | <0.502 |           | 0.502 |     | mg/Kg | -\$\$€ | 08/22/16 12:27 | 08/30/16 13;35 | 1       |
| PCB-1232 | <0.502 |           | 0.502 |     | mg/Kg | ≎      | 08/22/16 12:27 | 08/30/16 13:35 | 1       |
| PCB-1242 | 0.993  |           | 0.502 |     | mg/Kg | 許      | 08/22/16 12:27 | 08/30/16 13:35 | 1       |
| PCB-1248 | <0.502 |           | 0.502 |     | mg/Kg | ≎      | 08/22/16 12:27 | 08/30/16 13:35 | 1       |
| PCB-1254 | <0.502 |           | 0.502 |     | mg/Kg | 4      | 08/22/16 12:27 | 08/30/16 13:35 | 1       |
| PCB-1260 | <0.502 |           | 0.502 |     | mg/Kg | #      | 08/22/16 12:27 | 08/30/16 13:35 | 1       |
| PCB-1268 | <0.502 |           | 0.502 |     | mg/Kg | 計      | 08/22/16 12:27 | 08/30/16 13:35 | 1       |

TestAmerica Cedar Falls

# **Client Sample Results**

Client: Clayton County Recycling

Halogens, Extractable Organic

Project/Site: 081616 PM

| TestAmerica | lob | ID: | 310 | 87648_  | 1 |
|-------------|-----|-----|-----|---------|---|
| restamenta  | JUU | IU. | 310 | -0/040- | п |

08/25/16 11:30

08/24/16 06:00

| Surrogate %F DCB Decachlorobiphenyl (Surr) Tetrachloro-m-xylene | Recovery<br>56<br>56 | Qualifier | Limits 10 - 110 10 - 110 |     |      |   | Prepared 08/22/16 12:27 08/22/16 12:27 | Analyzed<br>08/30/16 13:35<br>08/30/16 13:35 | DII Fac<br>1<br>1 |
|---|----------------------|-----------|--------------------------|-----|------|---|--|--|-------------------|
| General Chemistry<br>Analyte                                    | Result               | Qualifier | RL                       | MDL | Unit | D | Prepared                               | Analyzed                                     | DII Fac           |

59.8

mg/Kg

1470

|   | 5 |  |   |  |  |  |  |
|---|---|--|---|--|--|--|--|
| - |   |  | - |  |  |  |  |
|   |   |  |   |  |  |  |  |





# Lab Chronicle

Client: Clayton County Recycling

Project/Site: 081616 PM

TestAmerica Job ID: 310-87648-1

Lab Sample ID: 310-87648-1

Matrix: Solid

Client Sample ID: 081616 PM

Date Collected: 08/16/16 00:00 Date Received: 08/22/16 08:50

|           | Batch    | Batch    |     | Dilution | Batch  | Prepared       |         |         |
|-----------|----------|----------|-----|----------|--------|----------------|---------|---------|
| Prep Type | Type     | Method   | Run | Factor   | Number | or Analyzed    | Analyst | Lab     |
| TCLP      | Leach    | 1311     |     |          | 138865 | 08/23/16 17:10 | JTA     | TAL CF  |
| TCLP      | Prep     | 3510C    |     |          | 138961 | 08/24/16 13:58 | DEM1    | TAL CF  |
| TCLP      | Analysis | 8082A    |     | 1        | 139660 | 08/30/16 18:32 | BKT     | TAL CF  |
| TCLP      | Leach    | 1311     |     |          | 138871 | 08/23/16 17:10 | JTA     | TAL CF  |
| TCLP      | Prep     | 3010A    |     |          | 138928 | 08/25/16 10:00 | JNR     | TAL CF  |
| TCLP      | Analysis | 6010C    |     | 2        | 139387 | 08/26/16 15:23 | OAD     | TAL CF  |
| TCLP      | Leach    | 1311     |     |          | 138871 | 08/23/16 17:10 | JTA     | TAL CF  |
| TCLP      | Prep     | 7470A    |     |          | 138951 | 08/24/16 13:32 | SAD     | TAL CF  |
| TCLP      | Analysis | 7470A    |     | 1        | 139342 | 08/26/16 12:35 | SAD     | TAL CF  |
| Soluble   | Leach    | DI Leach |     |          | 138725 | 08/23/16 09:15 | JIS     | TAL CF  |
| Soluble   | Analysis | 9045D    |     | 1        | 138807 | 08/23/16 14:56 | JIS     | TAL CF  |
| Total/NA  | Analysis | D240-87  |     | 1        | 365538 | 08/25/16 13:30 | BMC     | TAL NSH |
| Total/NA  | Analysis | D92      |     | 1        | 139000 | 08/24/16 15:44 | BER     | TAL CF  |

Client Sample ID: 081616 PM

Date Collected: 08/16/16 00:00 Date Received: 08/22/16 08:50 Lab Sample ID: 310-87648-1

Matrix: Solid Percent Solids: 87.1

|           | Batch    | Batch  |     | Dilution | Batch  | Prepared       |         |         |
|-----------|----------|--------|-----|----------|--------|----------------|---------|---------|
| Prep Type | Type     | Method | Run | Factor   | Number | or Analyzed    | Analyst | Lab     |
| Total/NA  | Prep     | 3550B  |     |          | 138625 | 08/22/16 12:27 | DEM2    | TAL CF  |
| Total/NA  | Analysis | 8082A  |     | 1        | 139607 | 08/30/16 13:35 | BKT     | TAL CF  |
| Total/NA  | Prep     | 9023   |     |          | 364732 | 08/24/16 06:00 | CLJ     | TAL NSH |
| Total/NA  | Analysis | 9023   |     | 1        | 364786 | 08/25/16 11:30 | CLJ     | TAL NSH |

# Laboratory References:

TAL CF = TestAmerica Cedar Falls, 704 Enterprise Drive, Cedar Falls, IA 50613, TEL (319)277-2401

TAL NSH = TestAmerica Nashville, 2960 Foster Creighton Drive, Nashville, TN 37204, TEL (615)726-0177

# **Definitions/Glossary**

Client: Clayton County Recycling

Project/Site: 081616 PM

TestAmerica Job ID: 310-87648-1

# Qualifiers

# General Chemistry

| Qualifier |
|-----------|
|-----------|

Qualifier Description

Toxicity Equivalent Quotient (Dioxin)

HE

TEQ

Field parameter with a holding time of 15 minutes. Test performed by laboratory at client's request.

# Giossary

| Abbreviation   | These commonly used abbreviations may or may not be present in this report.                                 |  |  |  |  |  |  |
|----------------|---|--|--|--|--|--|--|
| ā              | Listed under the "D" column to designate that the result is reported on a dry weight basis                  |  |  |  |  |  |  |
| %R             | Percent Recovery  |  |  |  |  |  |  |
| CFL            | Contains Free Liquid  |  |  |  |  |  |  |
| CNF            | Contains no Free Liquid   |  |  |  |  |  |  |
| DER            | Duplicate error ratio (normalized absolute difference)  |  |  |  |  |  |  |
| Dil Fac        | Dilution Factor   |  |  |  |  |  |  |
| DL, RA, RE, IN | Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample |  |  |  |  |  |  |
| DLC            | Decision level concentration  |  |  |  |  |  |  |
| MDA            | Minimum detectable activity   |  |  |  |  |  |  |
| EDL            | Estimated Detection Limit   |  |  |  |  |  |  |
| MDC            | Minimum detectable concentration  |  |  |  |  |  |  |
| MDL            | Method Detection Llmit  |  |  |  |  |  |  |
| ML             | Minimum Level (Dioxin)  |  |  |  |  |  |  |
| NC             | Not Calculated  |  |  |  |  |  |  |
| ND             | Not detected at the reporting limit (or MDL or EDL if shown)  |  |  |  |  |  |  |
| PQL            | Practical Quantitation Limit  |  |  |  |  |  |  |
| QC             | Quality Control   |  |  |  |  |  |  |
| RER            | Relative error ratio  |  |  |  |  |  |  |
| RL             | Reporting Limit or Requested Limit (Radiochemistry)   |  |  |  |  |  |  |
| RPD            | Relative Percent Difference, a measure of the relative difference between two points                        |  |  |  |  |  |  |
| TEF            | Toxicity Equivalent Factor (Dioxin)   |  |  |  |  |  |  |

# **Certification Summary**

Client: Clayton County Recycling

Project/Site: 081616 PM

# Laboratory: TestAmerica Cedar Falls

Unless otherwise noted, all analytes for this laboratory were covered under each certification below.

| Authority                | Program                        |                              | EPA Region              | Certification ID | Expiration Date |
|--------------------------|--------------------------------|------------------------------|-------------------------|------------------|-----------------|
| owa                      | State Prog                     | gram                         | 7                       | 007              | 12-01-17        |
| The following analytes a | re included in this report, bu | it certification is not offe | ered by the governing a | authority:       |                 |
| Analysis Method          | Prep Method                    | Matrix                       | Analyt                  | te               |                 |
| 8082A                    | 3510C                          | Solid                        | PCB-                    | 1268             |                 |
| 8082A                    | 3550B                          | Solid                        | PCB-                    | 1268             |                 |
|                          |                                | Solid                        | Flashi                  |                  |                 |

Analyte

# Laboratory: TestAmerica Nashville

Analysis Method

Unless otherwise noted, all analytes for this laboratory were covered under each certification below.

Prep Method

|  | Authority<br>lowa | Program<br>State Program | EPA Region | Certification ID | Expiration Date |  |  |
|--|-------------------|--------------------------|------------|------------------|-----------------|--|--|
| The following analytes are included in this report, but certification is not offered by the governing authority: |                   |                          |            |                  |                 |  |  |

Matrix 9023 9023 Solid Halogens, Extractable Organic D240-87 Solid

8/31/2016

# **Method Summary**

Client: Clayton County Recycling

Project/Site: 081616 PM

TestAmerica Job ID: 310-87648-1

| /lethod | Method Description                                     | Protocol | Laboratory |
|---------|--|----------|------------|
| 082A    | Polychlorinated Biphenyls (PCBs) by Gas Chromatography | SW846    | TAL CF     |
| 010C    | Metals (ICP)   | SW846    | TAL CF     |
| 470A    | Mercury (CVAA)   | SW846    | TAL CF     |
| 023     | Organic Halides, Extractable (EOX)                     | SW846    | TAL NSH    |
| 045D    | pH   | SW846    | TAL CF     |
| 240-87  | Heat of Combustion                                     | ASTM     | TAL NSH    |
| 92      | Flashpoint   | ASTM     | TAL CF     |

# Protocol References:

ASTM = ASTM International

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

# Laboratory References:

TAL CF = TestAmerica Cedar Falls, 704 Enterprise Drive, Cedar Falls, IA 50613, TEL (319)277-2401

TAL NSH = TestAmerica Nashville, 2960 Foster Creighton Drive, Nashville, TN 37204, TEL (615)726-0177

TestAmerica Cedar Falls







# Cooler/Sample Receipt and Temperature Log Form

| Client Information   |                             | 是是《在大学》的文字中的《古典》的《图中》的图1988  |
|--|-----------------------------|--|
| Client: Clayton Cour   | ty Recyclina                |  |
| City/State: Monona   | A                           | VProject:  |
| Receipt Information  | ANTO THE PARTY              | NOT ALTONOMY TO A PROPERTY OF  |
| Date/Time Received: 8-22.                                      | le 8:50                     | Received By: AW  |
| Delivery Type: 4-UPS   | FedEx                       | FedEx Ground US Mail Spee-Dee  |
| TA Courier   | TA Field Services [         | Client Drop-off Other:   |
| Condition of Cooler/Containers                                 | SPECIAL SPACE               | ARTEN STATE OF A TRANSPORT   |
| Sample(s) received in Cooler?                                  | Yes No                      | If yes: Cooler ID:   |
| Multiple Coolers?  | Yes No                      | If yes: Cooler # of  |
| Cooler Custody Seals Present?                                  | Yes No                      | If yes: Cooler custody seals intact? Yes No  |
| Sample Custody Seals Present?                                  | Yes No                      | If yes: Sample custody seals intact? Yes No  |
| Trip Blank Present?  | Yes No                      | If yes: Which VOA samples are in cooler?   |
| Temperature Record Coolant: Wet ice Bank? Yes                  | lue ice Dry ice             | Other:NONE   |
| Note: If yes, use temp blank for me                            |                             | ecify sample ID(s) and bottle type used to take measurement.   |
| Thermometer ID:  |                             | Correction Factor (°C):  |
| Uncorrected Temp (°C): 30                                      | 1.                          | Corrected Temp (°C): 20. (a  |
| Exceptions Noted   | F455 NOS 30 30              |  |
| If temperature exceeds criter     a) If yes: Is there evidence | that the chilling proces    | ived same day of sampling? Yes No Some Segan? Yes No   |
| (e.g., buiging septa, broken/o                                 | cracked bottles?)           | the integrity of sample containers is compromised?  Yes No   |
| NOTE: If yes, contact PM before pro                            | ceeding. If no, proceed wit | h login  |
| Additional Comments  |                             | State State of the |
|  |                             |  |
|  |                             |  |
|  |                             |  |
|  |                             |  |

Document: CF-LG-WI-002

Revision: 21 Date: 7/28/2015

Ime

Send QC with report

# TestAmerica Cedar Falls 704 Enterprise Drive Cedar Falls, IA 50613 Phone (319) 277-2401 Fax (319) 277-24

# **Chain of Custody Record**

| _   |   |     |
|-----|---|-----|
| E   | Ę | 7.  |
|     | = |     |
| E   | ÷ |     |
|     |   |     |
|     |   |     |
| Ξ   | Ξ | Ξ   |
| 100 | _ |     |
|     | = |     |
|     |   | 74* |
|     |   |     |
|     | Ξ |     |
| =   | = |     |

| Custody Seals Intact Custody Seal No.:  A Yes A No | Refinquished by: | Relinquished by: | Refinquished by: | Empty Kit Relinquished by: | Deliverable Requested: I, II, III, IV, Other (specify) | Unconfirmed   | Donati la Landina di L |  |  |   |   | 081616 PM (310-87648-1) |                    | Sample Identification - Client ID (Lab ID)               | Site:         | Project Name:<br>081616 PM | Email:                               | Phone:<br>615-726-0177(Tel) 615-726-3404(Fax) | State, Zip:<br>TN, 37204 | City.<br>Nashville         | Address:<br>2960 Foster Creighton Drive, | Company.<br>TestAmerica Laboratories, Inc | Client Contact Shipping/Receiving         | Client Information (Sub Contract Lab) |
|--|------------------|------------------|------------------|----------------------------|--|---|--|--|--|---|---|-------------------------|--------------------|--|---------------|----------------------------|--------------------------------------|---|--------------------------|----------------------------|--|---|---|---------------------------------------|
|  | Date/Time:       | Date/Time:       | Date/Time:       |                            | Primary Deliverable Rank: 1                            |   |  |  |  |   |   | 8/16/16                 | V<br>V             | Sample Date  | SOOW!         | Project #.<br>31001320     | WO#                                  | PO#:  | -                        | TAT Requested (days):      | Due Date Requested:<br>9/1/2016          |   | Phone:                                    | Sampler                               |
|  |                  | 100              | 7                | Date:                      | able Rank: 1   |   |  |  |  |   |   | Central                 | X                  | Sample<br>Time   |               |                            |                                      |   |                          | ays):                      | ed:                                      |   |   |                                       |
|  | S                |                  | 2   00           |                            |  |   |  |  |  |   |   |                         |                    | Sample Type (C=comp, G=grab) en                          |               |                            |                                      |   |                          |                            |  |   |   |                                       |
|  | Company          | Company          | Company          |                            |  |   |  |  |  |   |   | Solid                   | n Code:            | Matrix (W=wales, S=colid, D=wastoloil, BT=Tessue, A=Air) | l Com         | la (Va                     |                                      | 0)  |                          |                            |  |   | shall.b                                   | Brown, Shali                          |
| Coole  | Rece             | Rece             | F                | Time:                      | Special  | \   |  |  |  |   |   | ×                       | $\hat{\mathbb{X}}$ | Field Filtere<br>Perform MS<br>D240_87_NP/               | MSD (         | Yes or                     | No)                                  |   |                          | 100                        |  |   | E-Mail:<br>shali.brown@testamericainc.com | Shali                                 |
| Cooler Temperature(s) °C and Other                 | Received by:     | Received by:     | Recoived by:     |                            | Special Instructions/QC Requirements:                  | Sample Jusposal (A ree may be assessed it samples are retained longer than 1 month)  Return To Client Disposal By Lab Archive For Mon |  |  |  |   |   | ×                       |                    | 9023/9023_Pr   | ∌p EOX        | -                          | _                                    |   |                          |                            |  |   | americaino                                |                                       |
| e(s) °C and C                                      |                  | Chi              | 5                |                            | s/QC Requ  | lient   |  |  |  | 1 |   |                         |                    |  |               | _                          |                                      |   |                          |                            |  | Analysis Re                               | com                                       |                                       |
| Other Remarks:                                     |                  |                  | 1                |                            | irements:  | Disp  |  |  |  |   | 1 |                         |                    |  |               |                            |                                      |   |                          |                            |  | Requested                                 | _   | Can                                   |
| 80   |                  | Y                |                  | Method of Shipment         |  | Disposal By Lab   |  |  |  |   |   |                         |                    |  |               |                            |                                      |   |                          |                            |  | sted                                      |   | Carrier Tracking No(s):               |
| 0  | Date/Time:       | Date/Time:       | Date/Time:       | Shipment                   |  | mpies are   |  |  |  |   |   |                         |                    |  |               |                            |                                      |   |                          |                            |  |   |   | vo(s):                                |
|  |                  | 07/6             | √ I'             |                            |  | Archive For   |  |  |  |   |   | 1                       | X                  | Total Numbe  | _             |                            | _                                    | ΙO  | m m c                    | , C &                      | A Pr                                     | 31  | P 7                                       | 3 0                                   |
|  |                  | 0800             | 00               |                            | 1  | For   |  |  |  |   |   |                         | M                  | Speci  | , contraction | L-EDA                      | J - lice<br>J - DI Water<br>K - EDTA | G - Amchior<br>H - Ascorbic Acid              | E - NaHSO4 F - MeOH      | B - NaOH<br>C - Zn Acetate | Preservation Codes:                      | 310-87648-1                               | Page: Page 1 of 1                         | COC No<br>310-7338.1                  |
|  | Con              | -                | -                |                            |  | an 7 mon  |  |  |  |   |   |                         | V                  | al Instruc   |               | Z - ot                     | 5 < C                                |   | Z Q T                    |                            | Codes:                                   |   |   |                                       |
|  | Company          | Company          | Company          |                            |  | Months  |  |  |  |   |   |                         | $\left\  \right\ $ | Special Instructions/Note:                               |               | Z - other (specify)        | V - MCAA<br>W - pH 4-5               | S - H2SO4<br>T - TSP Dodecahydrate            | 12S2O3                   | N - None<br>O - AsNaO2     | exane                                    |   |   |                                       |
|  |                  | >                |                  |                            |  |   | 1  |  |  |   |   |                         |                    |  |               |                            |                                      | Irate   |                          |                            |  |   |   |                                       |



# **COOLER RECEIPT FORM**

| Cooler Received/Opened On_8/23/2016 @ 0850   |             |
|--|-------------|
| Time Samples Removed From Cooler Time Samples Placed In Storage (2                                   | lour Window |
| 1. Tracking # 25 86 (last 4 digits, FedEx) Courier: _FedEx   |             |
| IR Gun ID 17610176 pH Strip Lot HC564992 Chlorine Strip Lot 012516A                                  |             |
| 2. Temperature of rep. sample or temp blank when opened:   |             |
| 3. If Item #2 temperature is 0°C or less, was the representative sample or temp blank frozen? YES NO | ).(NA)      |
| 4. Were custody seals on outside of cooler?  YES. N  | 97NA        |
| If yes, how many and where:  | 0           |
| 5. Were the seals intact, signed, and dated correctly?  YESN   | O.(NA)      |
| 6. Were custody papers inside cooler?  | ONA         |
| I certify that I opened the cooler and answered questions 1-6 (intial)                               | 4           |
| 7. Were custody seals on containers: YES NO and Intact YESN  | O (NA)      |
| Were these signed and dated correctly? YESN  | O.(NA)      |
| 8. Packing mat'l used? Bubblewrap Plastic bag Peanuts Vermiculite Foam Insert Paper Other            | None        |
| 9. Cooling process: lce-pack lce (direct contact) Dry ice Other                                      | None        |
| 10. Did all containers arrive in good condition (unbroken)?  | ONA         |
| 11. Were all container labels complete (#, date, signed, pres., etc)?                                | ONA         |
| 12. Did all container labels and tags agree with custody papers?                                     | ONA         |
| 13a. Were VOA vials received?  | 6).NA       |
| b. Was there any observable headspace present in any VOA vial?                                       | O.NA        |
| 14. Was there a Trip Blank in this cooler? YESNO. NA If multiple coolers, sequence #                 |             |
| I certify that I unloaded the cooler and answered questions 7-14 (intial)                            |             |
| 15a. On pres'd bottles, did pH test strips suggest preservation reached the correct pH level? YESNO  | (NA)        |
| b. Did the bottle labels indicate that the correct preservatives were used YESN                      | 0.(NA)      |
| 16. Was residual chlorine present? YESN  | O.NA        |
| I certify that I checked for chlorine and pH as per SOP and answered questions 15-16 (initial)       | +           |
| 17. Were custody papers properly filled out (ink, signed, etc)?                                      | ONA         |
| 18. Did you sign the custody papers in the appropriate place?  | ONA         |
| 19. Were correct containers used for the analysis requested?   | ONA         |
| 20. Was sufficient amount of sample sent in each container?  | ONA         |
| I certify that I entered this project into LIMS and answered questions 17-20 (Intial)                |             |
| certify that I attached a label with the unique LIMS number to each container (intial)               |             |
| 21. Were there Non-Conformance issues at login? YES NO Was a NCM generated? YES NO#                  |             |

# Login Sample Receipt Checklist

Client: Clayton County Recycling

Job Number: 310-87648-1

Login Number: 87648

List Number: 1

Creator: Patrick, Kathryn A

List Source: TestAmerica Cedar Falls

| Question  | Answer | Comment   |
|---|--------|---|
| Radioactivity wasn't checked or is = background as measured by a survey meter.</td <td>N/A</td> <td></td> | N/A    |   |
| The cooler's custody seal, if present, is intact.   | N/A    |   |
| Sample custody seals, if present, are intact.   | N/A    |   |
| The cooler or samples do not appear to have been compromised or tampered with.                            | True   |   |
| Samples were received on ice.   | False  | No ice received.  |
| Cooler Temperature is acceptable.   | False  | Cooler temperature outside required temperature criteria. |
| Cooler Temperature is recorded.   | True   |   |
| COC is present.   | True   |   |
| COC is filled out in ink and legible.   | True   |   |
| COC is filled out with all pertinent information.   | True   |   |
| Is the Field Sampler's name present on COC?   | True   |   |
| There are no discrepancies between the containers received and the COC.                                   | True   |   |
| Samples are received within Holding Time (excluding tests with immediate HTs)                             | True   |   |
| Sample containers have legible labels.  | True   |   |
| Containers are not broken or leaking.   | True   |   |
| Sample collection date/times are provided.  | True   |   |
| Appropriate sample containers are used.   | True   |   |
| Sample bottles are completely filled.   | True   |   |
| Sample Preservation Verified.   | True   |   |
| There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs                          | True   |   |
| Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").                           | True   |   |
| Multiphasic samples are not present.  | True   |   |

True

N/A

Samples do not require splitting or compositing.

Residual Chlorine Checked.

# Login Sample Receipt Checklist

Client: Clayton County Recycling

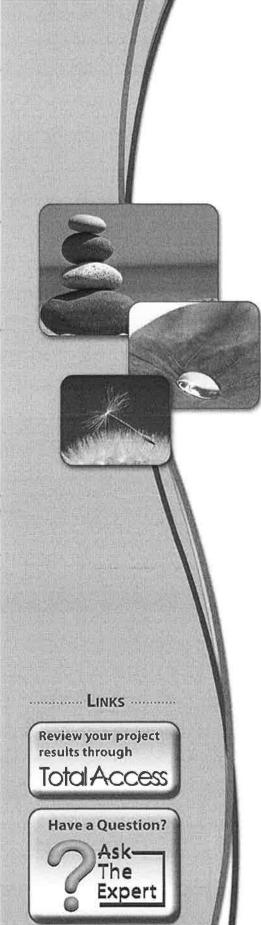
Job Number: 310-87648-1

Login Number: 87648 List Number: 2 List Source: TestAmerica Nashville List Creation: 08/23/16 03:48 PM

Creator: Armstrong, Daniel

| Question   | Answer | Comment |
|--|--------|---------|
| Radioactivity wasn't checked or is = background as measured by a survey meter.</td <td>True</td> <td></td> | True   |         |
| The cooler's custody seal, if present, is intact.  | N/A    |         |
| Sample custody seals, if present, are intact.  | N/A    |         |
| The cooler or samples do not appear to have been compromised or tampered with.                             | True   |         |
| Samples were received on ice.  | True   |         |
| Cooler Temperature Is acceptable.  | True   |         |
| Cooler Temperature is recorded.  | True   | 2,0C    |
| COC is present.  | True   |         |
| COC is filled out in ink and legible.  | True   |         |
| COC is filled out with all pertinent information.  | True   |         |
| Is the Field Sampler's name present on COC?  | True   |         |
| There are no discrepancies between the containers received and the COC.                                    | True   |         |
| Samples are received within Holding Time (excluding tests with immediate HTs)                              | True   |         |
| Sample containers have legible labels.   | True   |         |
| Containers are not broken or leaking.  | True   |         |
| Sample collection date/times are provided.   | True   |         |
| Appropriate sample containers are used.  | True   |         |
| Sample bottles are completely filled.  | True   |         |
| Sample Preservation Verified.  | N/A    |         |
| There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs                           | True   |         |
| Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").                            | N/A    |         |
| Multiphasic samples are not present.   | True   |         |
| Samples do not require splitting or compositing.   | True   |         |
| Residual Chlorine Checked.   | N/A    |         |





Visit us at:

www.testamericainc.com

# **TestAmerica**

THE LEADER IN ENVIRONMENTAL TESTING

# ANALYTICAL REPORT

TestAmerica Laboratories, Inc. TestAmerica Cedar Falls 704 Enterprise Drive Cedar Falls, IA 50613 Tel: (319)277-2401

TestAmerica Job ID: 310-87638-1 Client Project/Site: 081516 PM

For: Clayton County Recycling 11645 Echo Avenue PO BOX 861 Monona, Iowa 52159

Attn: Gina Roys

Authorized for release by: 8/31/2016 1:50:02 PM

Shali Brown, Project Manager II (615)301-5031 shali.brown@testamericainc.com

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

# 2

# **Table of Contents**

| over Page              | 1  |
|------------------------|----|
| able of Contents       | 2  |
| ase Narrative          | 3  |
| ample Summary          | 1  |
| lient Sample Results 5 |    |
| hronicle               | 7  |
| efinitions             | 3  |
| ertification Summary   | 9  |
| lethod Summary         | 10 |
| hain of Custody        | 11 |
|                        | 15 |

# **Case Narrative**

Client: Clayton County Recycling

Project/Site: 081516 PM

TestAmerica Job ID: 310-87638-1

Job ID: 310-87638-1

Laboratory: TestAmerica Cedar Falls

Narrative

Job Narrative 310-87638-1

# Comments

No additional comments.

## Receipt

The sample was received on 8/22/2016 8:50 AM; the sample arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 20.6° C.

## Except:

Sample was received at the laboratory outside the required temperature criteria and without a sample ID, collection date or collection time listed on the chain of custody.

### GC Semi VOA

Method(s) 8082A: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 310-138625 and analytical batch 310-139607 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

### Metals

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

# General Chemistry

Method(s) D92: Sample was collected in an improper container.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

# **Organic Prep**

Method(s) 3550B: Elevated reporting limits are provided for the following samples due to insufficient sample provided for preparation: 081516 PM (310-87638-1), (310-87638-A-1 MS) and (310-87638-A-1 MSD).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

TestAmerica Cedar Falls 8/31/2016

Page 3 of 16

# Sample Summary

Client: Clayton County Recycling Project/Site: 081516 PM

TestAmerica Job ID: 310-87638-1

| Lab Sample ID | Client Sample ID | Matrix | Collected Received            |
|---------------|------------------|--------|-------------------------------|
| 310-87638-1   | 081516 PM        | Solid  | 08/15/16 00:00 08/22/16 08:50 |









# **Client Sample Results**

Client: Clayton County Recycling

Project/Site: 081516 PM

Tetrachioro-m-xylene

BTU

Date Collected: 08/15/16 00:00

Date Received: 08/22/16 08:50

TestAmerica Job ID: 310-87638-1

Lab Sample ID: 310-87638-1

08/30/16 18:00

1

08/24/16 13:58

Matrix: Solid

# Client Sample ID: 081516 PM

Date Collected: 08/15/16 00:00 Date Received: 08/22/16 08:50

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography - TCLP DII Fac Result Qualifier RL MDL Unit Prepared Analyzed Analyte 08/30/16 18:00 PCB-1016 <3.20 3.20 ug/L 08/24/16 13:58 PCB-1221 <3.20 3.20 ug/L 08/24/16 13:58 08/30/16 18:00 PCB-1232 <3.20 3,20 ug/L 08/24/16 13:58 08/30/16 18:00 3.20 ug/L 08/24/16 13:58 08/30/16 18:00 PCB-1242 <3.20 08/24/16 13:58 08/30/16 18:00 PCB-1248 <3,20 3.20 ug/L PCB-1254 <3.20 3.20 ug/L 08/24/16 13:58 08/30/16 18:00 PCB-1260 <3.20 3.20 ug/L 08/24/16 13:58 08/30/16 18:00 3.20 ug/L 08/24/16 13:58 08/30/16 18:00 PCB-1268 <3.20 ug/L 08/24/16 13:58 08/30/16 18:00 Polychlorinated biphenyls, Total <3.20 3.20 %Recovery Qualifier Limits Prepared Analyzed Dil Fac Surrogate 38 10 - 110 08/24/16 13:58 08/30/16 18:00 DCB Decachlorobiphenyl (Surr)

| Analyte  | Result Qualifier | RL     | MDL Unit | D | Prepared       | Analyzed       | DII Fac |
|----------|------------------|--------|----------|---|----------------|----------------|---------|
| Arsenic  | <0.300           | 0.300  | mg/L     |   | 08/25/16 10:00 | 08/25/16 17:31 | 1       |
| Barium   | <0.500           | 0,500  | mg/L     |   | 08/25/16 10:00 | 08/25/16 17:31 | 1       |
| Cadmlum  | 0.0307           | 0.0200 | mg/L     |   | 08/25/16 10:00 | 08/25/16 17:31 | 1       |
| Chromium | 0.0269           | 0.0200 | mg/L     |   | 08/25/16 10:00 | 08/25/16 17:31 | 1       |
| Lead     | 0.443            | 0.100  | mg/L     |   | 08/25/16 10:00 | 08/25/16 17:31 | 1       |
| Selenium | <0.150           | 0.150  | mg/L     |   | 08/25/16 10:00 | 08/25/16 17:31 | 1       |
| Silver   | <0.0200          | 0.0200 | mg/L     |   | 08/25/16 10:00 | 08/25/16 17:31 | 1       |

10-110

| Method: 7470A - Mercury ( | CVAA) - TCLP |           |         |     |      |   |                |                |         |
|---------------------------|--------------|-----------|---------|-----|------|---|----------------|----------------|---------|
| Analyte                   | Result       | Qualifler | RL      | MDL | Unit | D | Prepared       | Analyzed       | DII Fac |
| Mercury                   | <0.00200     |           | 0.00200 |     | mg/L |   | 08/24/16 13:32 | 08/26/16 12:27 | 1       |
| General Chemistry         |              |           |         |     |      |   |                |                |         |
| Analyte                   | Result       | Qualifler | RL      | RL  | Unit | D | Prepared       | Analyzed       | DII Fac |

| Flashpoint                  | >215   |           | 40.0 |    | Degrees F |   |          | 08/24/16 15:44 | 1       |
|-----------------------------|--------|-----------|------|----|-----------|---|----------|----------------|---------|
| General Chemistry - Soluble | Result | Qualifier | RL   | RL | Unit      | D | Prepared | Analyzed       | DII Fac |
| 50 (50 E) 50 C              |        | HF        | 0.1  |    | SU        |   |          | 08/23/16 14:48 | 1       |
| pH                          | 0.3    | nr        | 0.1  |    | 30        |   |          | 00/25/10 14.46 |         |

200

BTU/lb

Client Sample ID: 081516 PM

7530

49

Lab Sample ID: 310-87638-1 Matrix: Solid Percent Solids: 65.3

08/25/16 11:50

| Analyte  | Result | Qualifler | RL    | MDL | Unit  | D  | Prepared       | Analyzed       | DII Fac |
|----------|--------|-----------|-------|-----|-------|----|----------------|----------------|---------|
| PCB-1016 | <0.496 |           | 0.496 |     | mg/Kg | 益  | 08/22/16 12:27 | 08/30/16 13:03 | 1       |
| PCB-1221 | <0.496 |           | 0.496 |     | mg/Kg | 贷  | 08/22/16 12:27 | 08/30/16 13:03 | 1       |
| PCB-1232 | <0.496 |           | 0.496 |     | mg/Kg | ₿  | 08/22/16 12:27 | 08/30/16 13:03 | 1       |
| PCB-1242 | 1.05   |           | 0.496 |     | mg/Kg | ξt | 08/22/16 12:27 | 08/30/16 13:03 | 1       |
| PCB-1248 | <0.496 |           | 0.496 |     | mg/Kg | ₽  | 08/22/16 12:27 | 08/30/16 13:03 | 1       |
| PCB-1254 | <0.496 |           | 0.496 |     | mg/Kg | ☆  | 08/22/16 12:27 | 08/30/16 13:03 | 1       |
| PCB-1260 | <0.496 |           | 0.496 |     | mg/Kg | Ų. | 08/22/16 12:27 | 08/30/16 13:03 | 1       |
| PCB-1268 | <0.496 |           | 0.496 |     | mg/Kg | 禁  | 08/22/16 12:27 | 08/30/16 13:03 | 1       |

TestAmerica Cedar Falls

8/31/2016

# **Client Sample Results**

Client: Clayton County Recycling

Project/Site: 081516 PM

TestAmerica Job ID: 310-87638-1

| П | Surrogate                     | %Recovery Qualifier | Limits   | Prepared       | Analyzed       | DII Fac |
|---|-------------------------------|---------------------|----------|----------------|----------------|---------|
| П | DCB Decachlorobiphenyl (Surr) | 62                  | 10 - 110 | 08/22/16 12:27 | 08/30/16 13:03 | 1       |
| ı | Tetrachioro-m-xylene          | 62                  | 10 - 110 | 08/22/16 12:27 | 08/30/16 13:03 | 1       |

| =                             |        |           |      |     |       |   |                |                |         |
|-------------------------------|--------|-----------|------|-----|-------|---|----------------|----------------|---------|
| General Chemistry             |        |           |      |     |       |   |                |                |         |
| Analyte                       | Result | Qualifier | RL   | MDL | Unit  | D | Prepared       | Analyzed       | DII Fac |
| Halogens, Extractable Organic | 10400  |           | 76.6 |     | mg/Kg | ♦ | 08/24/16 06:00 | 08/24/16 11:03 | 1       |

# Lab Chronicle

Client: Clayton County Recycling

Project/Site: 081516 PM

TestAmerica Job ID: 310-87638-1

Lab Sample ID: 310-87638-1

Matrix: Solid

Client Sample ID: 081516 PM

Date Collected: 08/15/16 00:00 Date Received: 08/22/16 08:50

|           | Batch    | Batch    |     | Dilution | Batch  | Prepared       |         |         |
|-----------|----------|----------|-----|----------|--------|----------------|---------|---------|
| Prep Type | Type     | Method   | Run | Factor   | Number | or Analyzed    | Analyst | Lab     |
| TCLP      | Leach    | 1311     |     |          | 138865 | 08/23/16 17:10 | JTA     | TAL CF  |
| TCLP      | Prep     | 3510C    |     |          | 138961 | 08/24/16 13:58 | DEM1    | TAL CF  |
| TCLP      | Analysis | 8082A    |     | 1        | 139660 | 08/30/16 18:00 | BKT     | TAL CF  |
| TCLP      | Leach    | 1311     |     |          | 138871 | 08/23/16 17:10 | JTA     | TAL CF  |
| TCLP      | Prep     | 3010A    |     |          | 138928 | 08/25/16 10:00 | JNR     | TAL CF  |
| TCLP      | Analysis | 6010C    |     | 1        | 139219 | 08/25/16 17:31 | OAD     | TAL CF  |
| TCLP      | Leach    | 1311     |     |          | 138871 | 08/23/16 17:10 | ATL     | TAL CF  |
| TCLP      | Prep     | 7470A    |     |          | 138951 | 08/24/16 13:32 | SAD     | TAL CF  |
| TCLP      | Analysis | 7470A    |     | 1        | 139342 | 08/26/16 12:27 | SAD     | TAL CF  |
| Soluble   | Leach    | DI Leach |     |          | 138725 | 08/23/16 09:15 | JIS     | TAL CF  |
| Soluble   | Analysis | 9045D    |     | 1        | 138807 | 08/23/16 14:48 | JIS     | TAL CF  |
| Total/NA  | Analysis | D240-87  |     | 1        | 365538 | 08/25/16 11:50 | BMC     | TAL NSH |
| Total/NA  | Analysis | D92      |     | 1        | 139000 | 08/24/16 15:44 | BER     | TAL CF  |

Client Sample ID: 081516 PM

Date Collected: 08/15/16 00:00 Date Received: 08/22/16 08:50 Lab Sample ID: 310-87638-1

Matrix: Solid Percent Solids: 65.3

|           | Batch    | Batch  |     | Dilution | Batch  | Prepared       |         |         |
|-----------|----------|--------|-----|----------|--------|----------------|---------|---------|
| Prep Type | Туре     | Method | Run | Factor   | Number | or Analyzed    | Analyst | Lab     |
| Total/NA  | Prep     | 3550B  |     |          | 138625 | 08/22/16 12:27 | DEM2    | TAL CF  |
| Total/NA  | Analysis | 8082A  |     | 1        | 139607 | 08/30/16 13:03 | BKT     | TAL CF  |
| Total/NA  | Prep     | 9023   |     |          | 364732 | 08/24/16 06:00 | CLJ     | TAL NSH |
| Total/NA  | Analysis | 9023   |     | 1        | 364786 | 08/24/16 11:03 | CLJ     | TAL NSH |

# Laboratory References:

TAL CF = TestAmerica Cedar Falls, 704 Enterprise Drive, Cedar Falls, IA 50613, TEL (319)277-2401

TAL NSH = TestAmerica Nashville, 2960 Foster Creighton Drive, Nashville, TN 37204, TEL (615)726-0177

# Definitions/Glossary

Client: Clayton County Recycling

Project/Site: 081516 PM

TestAmerica Job ID: 310-87638-1

# 7

# Qualifiers

# **General Chemistry**

Qualifier Qualifier Description

Relative error ratio

Toxicity Equivalent Factor (Dioxin)
Toxicity Equivalent Quotient (Dioxin)

Reporting Limit or Requested Limit (Radiochemistry)

Relative Percent Difference, a measure of the relative difference between two points

HE

RER

RL RPD

TEF

TEQ

Field parameter with a holding time of 15 minutes. Test performed by laboratory at client's request,

# 4

# Glossary

| Abbreviation   | These commonly used abbreviations may or may not be present in this report.                                 |
|----------------|---|
| п              | Listed under the "D" column to designate that the result is reported on a dry weight basis                  |
| %R             | Percent Recovery  |
| CFL            | Contains Free Liquid  |
| CNF            | Contains no Free Liquid   |
| DER            | Duplicate error ratio (normalized absolute difference)  |
| Dil Fac        | Dilution Factor   |
| DL, RA, RE, IN | Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample |
| DLC            | Decision level concentration  |
| MDA            | Minimum detectable activity   |
| EDL            | Estimated Detection Limit   |
| MDC            | Minimum detectable concentration  |
| MDL            | Method Detection Limit  |
| ML             | Minimum Level (Dioxin)  |
| NC             | Not Calculated  |
| ND             | Not detected at the reporting limit (or MDL or EDL if shown)  |
| PQL            | Practical Quantitation Limit  |
| QC             | Quality Control   |

# **Certification Summary**

Client: Clayton County Recycling

TestAmerica Job ID: 310-87638-1

Project/Site: 081516 PM

# Laboratory: TestAmerica Cedar Falls

Unless otherwise noted, all analytes for this laboratory were covered under each certification below.

| uthority                 | Program                        |                             | EPA Region              | Certification ID | Expiration Date |  |  |
|--------------------------|--------------------------------|-----------------------------|-------------------------|------------------|-----------------|--|--|
| owa                      | State Prog                     | State Program               |                         | 007              | 12-01-17        |  |  |
| The following analytes a | re included in this report, bu | t certification is not offe | ered by the governing a | authority:       |                 |  |  |
| Analysis Method          | Prep Method                    | Matrix                      | Analyt                  | e                |                 |  |  |
| 8082A                    | 3510C                          | Solid                       | PCB-1                   | 1268             |                 |  |  |
| 8082A                    | 3550B                          | Solid                       | PCB-1                   | 1268             |                 |  |  |
|                          |                                | Solid                       | Flash                   |                  |                 |  |  |

# Laboratory: TestAmerica Nashville

Unless otherwise noted, all analytes for this laboratory were covered under each certification below.

| Authority              | Program                         |                                | EPA Region            | Certification ID         | Expiration Date |
|------------------------|---------------------------------|--------------------------------|-----------------------|--------------------------|-----------------|
| lowa                   | State Prog                      | gram                           | 7                     | 131                      | 04-01-18        |
| The following analytes | are included in this report, bu | it certification is not offere | ed by the governing a | authority:               |                 |
| Analysis Method        | Prep Method                     | Matrix                         | Analyt                | e                        |                 |
|                        |                                 |                                |                       |                          |                 |
| 9023                   | 9023                            | Solid                          | Halog                 | ens, Extractable Organic |                 |

TestAmerica Cedar Falls

# **Method Summary**

Client: Clayton County Recycling

Project/Site: 081516 PM

TestAmerica Job ID: 310-87638-1

| Method  | Method Description                                     | Protocol | Laboratory |
|---------|--|----------|------------|
| 8082A   | Polychlorinated Biphenyls (PCBs) by Gas Chromatography | SW846    | TAL CF     |
| 6010C   | Metals (ICP)   | SW846    | TAL CF     |
| 7470A   | Mercury (CVAA)   | SW846    | TAL CF     |
| 9023    | Organic Halides, Extractable (EOX)                     | SW846    | TAL NSH    |
| 9045D   | рН   | SW846    | TAL CF     |
| D240-87 | Heat of Combustion                                     | ASTM     | TAL NSH    |
| D92     | Flashpoint   | ASTM     | TAL CF     |

# Protocol References:

ASTM = ASTM International

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

### Laboratory References:

TAL CF = TestAmerica Cedar Falls, 704 Enterprise Drive, Cedar Falls, IA 50613, TEL (319)277-2401

TAL NSH = TestAmerica Nashville, 2960 Foster Creighton Drive, Nashville, TN 37204, TEL (615)726-0177

4

4

8

8

9







# Cooler/Sample Receipt and Temperature Log Form

| Client Information  | 1950年第四日的                    | 是是是对于10万元的对象的特殊。2010年2010年2010年2010年2010年2010年2010年2010  |
|---|------------------------------|--|
| Client: Clauston Cour   | ty Recycling                 | Λ  |
| City/State: Monona -  | TA O                         | Project:   |
| Receipt Information   | 1201011                      | NOR MODELLO DE L'ARREST DE L'A |
| Date/Time Received: 8.22                                      | lle 8:50                     | Received By: AU  |
| Delivery Type: UPS  | FedEx [                      | FedEx Ground US Mail Spee-Dee  |
| ☐ TA Courier  | TA Field Services            | Client Drop-off Other:   |
| Condition of Cooler/Containers                                | DEMON WHAT                   | SECTION OF THE PROPERTY OF THE PROPERTY OF   |
| Sample(s) received in Cooler?                                 | Yes No                       | If yes: Cooler ID:   |
| Multiple Coolers?   | Yes No                       | If yes: Cooler# of   |
| Cooler Custody Seals Present?                                 | Yes No                       | If yes: Cooler custody seals intact? Yes No  |
| Sample Custody Seals Present?                                 | ☐ Yes 🔀 No                   | If yes: Sample custody seals intact? Yes No  |
| Trip Blank Present?   | Yes No                       | If yes: Which VOA samples are in cooler? ↓   |
| Coolant: Wet ice Temperature Blank? Yes                       | Blue ice Dry ice  No ID & Bo | Other:NONE   |
| Note: If yes, use temp blank for m                            | easurement. If no, sp        | ecify sample ID(s) and bottle type used to take measurement.   |
| Thermometer ID:   |                              | Correction Factor (°C):  |
| Uncorrected Temp (°C): 2 A                                    | 1.                           | Corrected Temp (°C): 20 (a   |
| Exceptions Noted  | SPERIO NOSCIDENZA            | 20. U  |
| If temperature exceeds crite     a) If yes: Is there evidence |                              |  |
| (e.g., bulging septa, broken)                                 | (cracked bottles?)           | the integrity of sample containers is compromised?  Yes No   |
| Note: If yes, contact PM before or                            | oceading. If no, proceed wit | h login  |
| Additional Comments   | to describe the second       | and the court, and the first that the  |
|   |                              |  |
|   |                              |  |
|   |                              |  |
|   |                              |  |

Document: CF-LG-WI-002 Revision: 21

Date: 7/28/2015

TestAmerica-Cedar Falls
Page 11 of 16

General temperature criteria is 0 to 6°C Bacteria temperature criteria is 0 to 10°C 8/31/2016

# TestAmerica Cedar Falls 704 Enterprise Drive Cedar Falls, IA 50613 Phone (319) 277-2401 Fax (319) 277-24

# Chain of Custody Record

|              | - |
|--------------|---|
|              |   |
| pri p wijeen |   |
|              |   |
| -:-          |   |
|              |   |
| -            | - |
|              | Ξ |
|              |   |
|              | - |
|              | = |
|              |   |
|              |   |

| Custody Seal No.:  A Yes A No               | Relinquished by: | Relinquished by: | Relinquistred by: | Empty Kit Relinquished by: | Deliverable Requested: I, II, III, IV, Other (specify) | Possible Hazard Identification Unconfirmed                           |   |   |   |   |   |   |   |   | 081516 PM (310-87638-1) |                    | Sample Identification - Client ID (Lab ID)   | olic.                                   | 081516 PM          | Elizali.  Dorloct Manno. | 615-726-0177(Tel) 615-726-3404(Fax)         | TN, 37204             | City:<br>Nashville         | Address:<br>2960 Foster Creighton Drive, | Company:<br>TestAmerica Laboratories, Inc | Client Contact Shipping/Receiving        | Client Information (Sub Contract Lab) | TestAmerica Cedar Falls 704 Enterprise Drive Cedar Falls, IA 50613 Phone (319) 277-2401 Fax (319) 277-2425 |
|---|------------------|------------------|-------------------|----------------------------|--|--|---|---|---|---|---|---|---|---|-------------------------|--------------------|--|---|--------------------|--------------------------|---|-----------------------|----------------------------|--|---|--|---------------------------------------|--|
|   | Date/Time:       | Date/Time:       | Date/Time;        |                            | Primary Deliverable Rank: 1                            |  |   |   |   |   |   |   |   |   | 8/15/16                 | X                  | Sample Date  | 3                                       | 31001320           |                          | * 3   | *                     | TAT Requested (days):      | 9/1/2016                                 |   | Phone:                                   | Sampler                               |  |
|   |                  |                  | 17                | Date:                      | erable Rank:   |  |   |   |   |   |   |   |   |   | Central                 | 1                  | Sample<br>Time   |   |                    |                          |   |                       | days):                     | ited:                                    |   |  |                                       | Chain of Custody Record  |
|   | 0                | C                | 9.                |                            | 1  |  |   |   |   |   |   |   |   |   |                         | Preservation Code: | Type<br>(C=comp,<br>G=grab)  | S P P P P P P P P P P P P P P P P P P P |                    |                          |   |                       |                            |  |   |  |                                       | of Cust  |
|   | Company          | Company          | Company           |                            |  |  |   |   |   |   |   |   |   |   | Solid                   | on Code:           | (W-water, Final S-solid, U.S-solid, U.S-solid, U.S-solid, U.S-solid, U.S-solid, A-Ale) | Matrix                                  | nia /V             |                          | Ye)   |                       |                            |  |   | shall,b                                  | Brown, Shali                          | ody Re   |
| 0   | 70               | 71               | 20                | Time:                      | Spec   | Sam  |   |   | 1 | 1 | F |   |   |   |                         | Ŕ                  | Perform N  | ds/MsD                                  | Yes c              | (No)                     | N.  | 3. 1                  | 1,                         | Ť,                                       |   | டன்கா:<br>shali.brown@testamericainc.com | Shali                                 | 1036   |
| Cooler Temperature(s) °C and Other Remarks: | Received by:     | Received by:     | goelva by:        |                            | Special Instructions/QC Requirements:                  | Sample Disposal ( A fee may be assessed  Return To Client Disposal B |   |   |   |   |   |   |   |   | ×                       |                    | D240_87_N<br>9023/9023_  |   | -                  | Justion                  |   |                       |                            |  |   | estame                                   |                                       | 9  |
| nperature                                   | .Yc              | Ŋ.               | 1,8               |                            | uctions  | le Disposal ( A f<br>Retum To Client                                 |   |   | - |   |   |   |   |   |                         |                    |  |   |                    |                          |   | _                     |                            |  |   | ricainc                                  |                                       |  |
| g(s) °C an                                  |                  | 0                |                   |                            | QC Re  | A fee r  |   |   |   |   |   |   |   |   |                         |                    |  |   |                    |                          |   |                       |                            |  | Analysis                                  | com                                      |                                       |  |
| id Other f                                  |                  |                  | 3                 |                            | quirem   | nay be   |   |   |   | 4 | + | H | + | + |                         | -                  |  |   |                    |                          |   | _                     | -                          | 4  |   |  |                                       |  |
| Remarks                                     |                  | 1                |                   |                            | ents:  | asses:<br>Dispos   |   |   |   |   |   |   |   |   |                         |                    |  |   |                    |                          |   |                       |                            |  | Requested                                 |  | 2                                     |  |
| ر.<br>ص                                     |                  |                  | 0                 | Method o                   |  | e assessed if san<br>Disposal By Lab                                 |   | - | - | - | - | H |   | - |                         |                    |  | -                                       | -                  | _                        |   |                       |                            |  | <u>8</u>                                  |  | macking wots).                        |  |
| O   | Date/Time:       | Date/Time:       | X DE              | Method of Shipment         | 1  | amples<br>ab   |   |   |   |   |   |   |   | I |                         |                    |  |   |                    |                          |   |                       |                            |  | 1   |  | ino(s).                               |  |
|   | me               | ime:             | Deservance:       | 큐                          |  | are re   | - |   | - | + | + |   | + |   |                         |                    |  |   |                    |                          |   |                       |                            |  | 1   |  |                                       |  |
|   |                  |                  | 2                 |                            |  | tained long<br>Archive For   |   | 4 | 4 | 4 |   |   |   | 1 | _                       | X                  | Total Nun  |   | 2                  |                          | ; <u>∓</u> 0                                | ا س س د               | ٠ i                        | A 17                                     | 310-                                      | Page                                     | 310                                   |  |
|   |                  |                  | 0850              |                            |  | if samples are retained fonger than  3y Lab  Archive For             |   |   |   |   |   |   |   |   |                         |                    | Special  |   | F-EDA              | J - DI Water<br>K - EDTA | G - Amchlor<br>H - Ascorbic Acid<br>I - Ice | E - NaHSO4            | B - NaOH<br>C - Zn Acetate | A-HCL M                                  | 310-87638-1                               | Page 1 of 1                              | 310-7338.1                            | 30   |
|   | Co               |                  | _                 |                            |  | 1 1110   |   |   |   |   |   |   |   |   |                         | V                  | Instruc  |   | 2-0                | M-N                      |   | 7 D T                 | 002                        | M-F                                      |   |  |                                       | 8:3  |
|   | Company          |                  | Company TAN       |                            |  | nth)<br>Months   |   |   |   |   |   |   |   |   |                         |                    | Special Instructions/Note:   |   | 2 - otner (specny) | V-MCAA<br>W-pH4-5        | S - H2SO4 T - TSP Dodecahydrate             | Q-Na2SO3<br>R-Na2S2O3 | lone<br>ISNaO2             | M - Hexane                               |   |  |                                       |  |



# **COOLER RECEIPT FORM**

| Cooler Received/Opened On 8/23/2016 @ 0850  |                |
|---|----------------|
| Time Samples Removed From Cooler Time Samples Placed In Storage   | (2 Hour Window |
| 1. Tracking # 2586 (last 4 digits, FedEx) Courier: _FedEx_  |                |
| IR Gun ID 17610176 pH Strip Lot HC564992 Chlorine Strip Lot 012516A   |                |
| 2. Temperature of rep. sample or temp blank when opened:  |                |
| 3. If Item #2 temperature is $0^{\circ}$ C or less, was the representative sample or temp blank frozen?         | YES NO. NA     |
| 4. Were custody seals on outside of cooler?   | YES. NO.NA     |
| If yes, how many and where:   | 0              |
| 5. Were the seals intact, signed, and dated correctly?  | YESNO. NA      |
| 6. Were custody papers inside cooler?   | YES NO NA      |
| I certify that I opened the cooler and answered questions 1-6 (intial)  | PM             |
| 7. Were custody seals on containers:  YES NO and Intact   | YESNO (NA)     |
| Were these signed and dated correctly?  | YESNO. NA      |
| 8. Packing mat'l used? Bubblewrap Plastic bag Peanuts Vermiculite Foam Insert Paper                             | Other None     |
| 9. Cooling process: Ice lice lice-pack lice (direct contact) Dry Ice  | Other None     |
| 10. Did all containers arrive in good condition (unbroken)?   | YES NO NA      |
| 11. Were all container labels complete (#, date, signed, pres., etc)?   | YES NO NA      |
| 12. Did all container labels and tags agree with custody papers?  | YES NO NA      |
| 13a. Were VOA vials received?   | YES. NO.NA     |
| b. Was there any observable headspace present in any VOA vial?  | YESNO(NA)      |
| 14. Was there a Trip Blank in this cooler? YESNO. NA If multiple coolers, sequence                              | ce #           |
| I certify that I unloaded the cooler and answered questions 7-14 (intial)                                       |                |
| 15a. On pres'd bottles, did pH test strlps suggest preservation reached the correct pH level?                   | YESNO.NA       |
| b. Did the bottle labels indicate that the correct preservatives were used                                      | YESNO. (NA)    |
| 16. Was residual chlorine present?  | YESNO. NA      |
| certify that I checked for chlorine and pH as per SOP and answered questions 15-16 (intial)                     | DA-            |
| 17. Were custody papers properly filled out (ink, signed, etc)?   | YES NO NA      |
| 18. Did you sign the custody papers in the appropriate place?   | YES NONA       |
| 19. Were correct containers used for the analysis requested?  | YESNONA        |
| 20. Was sufficient amount of sample sent in each container?   | YES NONA       |
| I certify that I enfered this project into LIMS and answered questions 17-20 (Intial)                           |                |
| certify that I attached a label with the unique LIMS number to each container (intial) $\mathcal{D}\mathcal{P}$ |                |
| 21. Were there Non-Conformance issues at login? YES No Was a NCM generated? YES                                 | NO#            |

# **Login Sample Receipt Checklist**

Client: Clayton County Recycling

Job Number: 310-87638-1

Login Number: 87638 List Number: 1 List Source: TestAmerica Cedar Falls

Creator: Patrick, Kathryn A

| Question  | Answer | Comment   |
|---|--------|---|
| Radioactivity wasn't checked or is = background as measured by a survey meter.</td <td>N/A</td> <td></td> | N/A    |   |
| The cooler's custody seal, if present, is intact.   | True   |   |
| Sample custody seals, if present, are intact.   | N/A    |   |
| The cooler or samples do not appear to have been compromised or tampered with.                            | True   |   |
| Samples were received on ice.   | False  | No ice received.  |
| Cooler Temperature is acceptable.   | False  | Cooler temperature outside required temperature criteria. |
| Cooler Temperature is recorded.   | True   |   |
| COC is present.   | True   |   |
| COC is filled out in ink and legible.   | True   |   |
| COC is filled out with all pertinent information.   | True   |   |
| Is the Field Sampler's name present on COC?   | True   |   |
| There are no discrepancies between the containers received and the COC,                                   | True   |   |
| Samples are received within Holding Time (excluding tests with immediate HTs)                             | True   |   |
| Sample containers have legible labels.  | True   |   |
| Containers are not broken or leaking.   | True   |   |
| Sample collection date/times are provided.  | True   |   |
| Appropriate sample containers are used.   | True   |   |
| Sample bottles are completely filled.   | True   |   |
| Sample Preservation Verified.   | True   |   |
| There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs                          | True   |   |
| Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").                           | True   |   |
| Multiphasic samples are not present.  | True   |   |
| Samples do not require splitting or compositing.  | True   |   |
| Residual Chlorine Checked.  | N/A    |   |



## Login Sample Receipt Checklist

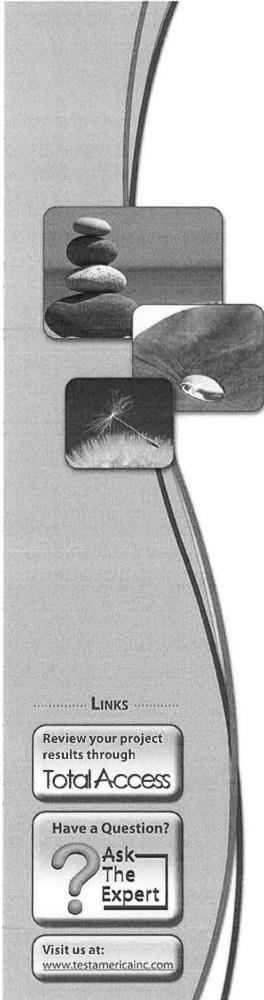
Client: Clayton County Recycling

Job Number: 310-87638-1

Login Number: 87638 List Number: 2 List Source: TestAmerica Nashville List Creation: 08/23/16 03:48 PM

Creator: Armstrong, Daniel

| Question   | Answer | Comment |
|--|--------|---------|
| Radioactivity wasn't checked or is = background as measured by a survey meter.</td <td>True</td> <td></td> | True   |         |
| The cooler's custody seal, if present, is intact.  | N/A    |         |
| Sample custody seals, if present, are intact.  | N/A    |         |
| The cooler or samples do not appear to have been compromised or tampered with.                             | True   |         |
| Samples were received on ice.  | True   |         |
| Cooler Temperature is acceptable.  | True   |         |
| Cooler Temperature is recorded.  | True   | 2,0C    |
| COC is present.  | True   |         |
| COC is filled out in ink and legible.  | True   |         |
| COC is filled out with all pertinent information.  | True   |         |
| Is the Field Sampler's name present on COC?  | True   |         |
| There are no discrepancies between the containers received and the COC.                                    | True   |         |
| Samples are received within Holding Time (excluding tests with Immediate HTs)                              | True   |         |
| Sample containers have legible labels.   | True   |         |
| Containers are not broken or leaking.  | True   |         |
| Sample collection date/times are provided.   | True   |         |
| Appropriate sample containers are used.  | True   |         |
| Sample bottles are completely filled.  | True   |         |
| Sample Preservation Verified.  | N/A    |         |
| There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs                           | True   |         |
| Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").                            | N/A    |         |
| Multiphasic samples are not present.   | True   |         |
| Samples do not require splitting or compositing.   | True   |         |
| Residual Chlorine Checked.   | N/A    | ~       |



## **TestAmerica**

THE LEADER IN ENVIRONMENTAL TESTING

## **ANALYTICAL REPORT**

TestAmerica Laboratories, Inc. TestAmerica Cedar Falls 704 Enterprise Drive Cedar Falls, IA 50613 Tel: (319)277-2401

TestAmerica Job ID: 310-87650-1 Client Project/Site: 081716 PM

For: Clayton County Recycling 11645 Echo Avenue PO BOX 861 Monona, Iowa 52159

Attn: Gina Roys

Authorized for release by: 8/31/2016 2:36:59 PM

Shali Brown, Project Manager II (615)301-5031 shali.brown@testamericainc.com

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

## **Table of Contents**

| Cover Page            | 1  |
|-----------------------|----|
| Table of Contents     |    |
| Case Narrative        | 3  |
| Sample Summary        | 4  |
| Client Sample Results | 5  |
| Chronicle             | 7  |
| Definitions           | 8  |
| Certification Summary | 9  |
| Method Summary        | 10 |
| Chain of Custody      | 11 |
| Receipt Checklists    | 15 |

## **Case Narrative**

Client: Clayton County Recycling

Project/Site: 081716 PM

TestAmerica Job ID: 310-87650-1

Job ID: 310-87650-1

Laboratory: TestAmerica Cedar Falls

Narrative

Job Narrative 310-87650-1

## Comments

No additional comments:

## Receipt

The sample was received on 8/22/2016 10:33 AM; the sample arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 20.6° C.

## Except

Sample was received at the laboratory outside the required temperature criteria and without a sample ID, collection date or collection time listed on the chain of custody.

## GC Semi VOA

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

## Metals

Method(s) 6010C: The following sample was diluted due to the presence of an interferent: 081716 PM (310-87650-1). Elevated reporting limits (RLs) are provided.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

## **General Chemistry**

Method(s) D92: Sample was collected in an improper container.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

## Organic Prep

Method(s) 3550B: Elevated reporting limits are provided for the following sample due to insufficient sample provided for preparation: 081716 PM (310-87650-1).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

## **Sample Summary**

Client: Clayton County Recycling Project/Site: 081716 PM

TestAmerica Job ID: 310-87650-1

| Lab Sample ID | Client Sample ID | Matrix | Collected      | Received       |
|---------------|------------------|--------|----------------|----------------|
| 310-87650-1   | 081716 PM        | Solid  | 08/17/16 00:00 | 08/22/16 10:33 |











## **Client Sample Results**

Client: Clayton County Recycling

Project/Site: 081716 PM

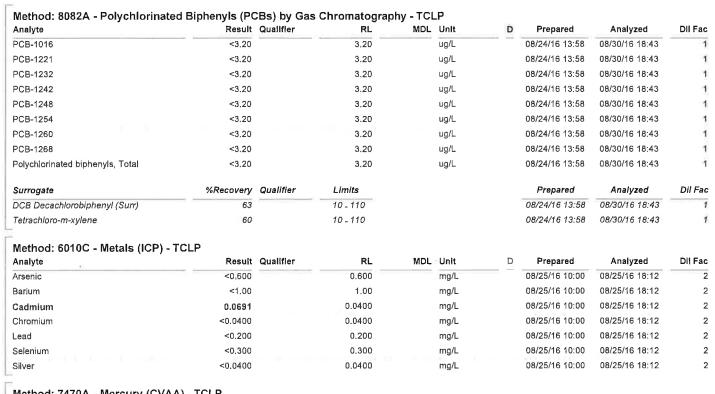
TestAmerica Job ID: 310-87650-1

Lab Sample ID: 310-87650-1

Matrix: Solid

| Client | Sample   | ID: | 081716 | PM |
|--------|----------|-----|--------|----|
| m 4 40 | 11 4 1 6 | ~   |        |    |

Date Collected: 08/17/16 00:00 Date Received: 08/22/16 10:33



| Ш | Method. 1410A - Mercury (CVAA) - 10 |          |           |         |     |      |   |                |                |         |
|---|-------------------------------------|----------|-----------|---------|-----|------|---|----------------|----------------|---------|
|   | Analyte                             | Result   | Qualifler | RL      | MDL | Unit | D | Prepared       | Analyzed       | DII Fac |
| Ì | Mercury                             | <0.00200 |           | 0,00200 |     | mg/L |   | 08/24/16 13:32 | 08/26/16 12:38 | 1       |

| (   | General Chemistry |        |           |      |    |           |      |          |                |         |
|-----|-------------------|--------|-----------|------|----|-----------|------|----------|----------------|---------|
| 1   | Analyte           | Result | Qualifier | RL   | RL | Unit      | D    | Prepared | Analyzed       | DII Fac |
| Ī   | BTU               | 7150   |           | 200  |    | BTU/lb    | -11: |          | 08/25/16 14:05 | 1       |
| ∦ r | Flashpoint        | >215   |           | 40.0 |    | Degrees F |      |          | 08/24/16 15:44 | 1       |

| - (5 |                             |        |           |     |    |      |   |          |                |         |
|------|-----------------------------|--------|-----------|-----|----|------|---|----------|----------------|---------|
|      | General Chemistry - Soluble |        |           |     |    |      |   |          |                |         |
|      | Analyte                     | Result | Qualifier | RL  | RL | Unit | D | Prepared | Analyzed       | Dil Fac |
|      | рH                          | 8.2    | HF        | 0.1 |    | SU   |   |          | 08/23/16 14:59 | 1       |

Client Sample ID: 081716 PM

Date Collected: 08/17/16 00:00 Date Received: 08/22/16 10:33 Lab Sample ID: 310-87650-1

Matrix: Solid Percent Solids: 50.9

| Analyte  | Result | Qualifler | RL    | MDL | Unit  | D    | Prepared       | Analyzed       | DII Fac |
|----------|--------|-----------|-------|-----|-------|------|----------------|----------------|---------|
| PCB-1016 | <0.968 |           | 0.968 |     | mg/Kg | ₩    | 08/22/16 12:27 | 08/30/16 13:57 | 1       |
| PCB-1221 | <0.968 |           | 0.968 |     | mg/Kg | 41/5 | 08/22/16 12:27 | 08/30/16 13:57 | 1       |
| PCB-1232 | <0.968 |           | 0.968 |     | mg/Kg | ☆    | 08/22/16 12:27 | 08/30/16 13:57 | 1       |
| PCB-1242 | 1.26   |           | 0.968 |     | mg/Kg | 章    | 08/22/16 12:27 | 08/30/16 13:57 | 1       |
| PCB-1248 | <0.968 |           | 0.968 |     | mg/Kg | ☆    | 08/22/16 12:27 | 08/30/16 13:57 | 1       |
| PCB-1254 | <0.968 |           | 0.968 |     | mg/Kg | ≎    | 08/22/16 12:27 | 08/30/16 13:57 | 1       |
| PCB-1260 | <0.968 |           | 0.968 |     | mg/Kg | ₩.   | 08/22/16 12:27 | 08/30/16 13:57 | 1       |
| PCB-1268 | <0.968 |           | 0.968 |     | mg/Kg | 3\$  | 08/22/16 12:27 | 08/30/16 13:57 | 1       |

TestAmerica Cedar Falls

## **Client Sample Results**

Client: Clayton County Recycling

Project/Site: 081716 PM

TestAmerica Job ID: 310-87650-1

| Surrogate                     | %Recovery | Qualifler | Limits   | Prepared       | Analyzed       | DII Fac |
|-------------------------------|-----------|-----------|----------|----------------|----------------|---------|
| DCB Decachlorobiphenyl (Surr) | 68        |           | 10 - 110 | 08/22/16 12:27 | 08/30/16 13:57 | 1       |
| Tetrachloro-m-xylene          | 70        |           | 10 - 110 | 08/22/16 12:27 | 08/30/16 13:57 | 1       |

| General Chemistry<br>Analyte  | Result | Qualifier | ŘL  | MDL | Unit  | D | Prepared       | Analyzed       | DII Fac |
|-------------------------------|--------|-----------|-----|-----|-------|---|----------------|----------------|---------|
| Halogens, Extractable Organic | 2800   |           | 109 |     | mg/Kg | ₩ | 08/24/16 06:00 | 08/26/16 13:05 | 1       |







## **Lab Chronicle**

Client: Clayton County Recycling

Project/Site: 081716 PM

TestAmerica Job ID: 310-87650-1

Lab Sample ID: 310-87650-1

Matrix: Solid

Client Sample ID: 081716 PM

Date Collected: 08/17/16 00:00 Date Received: 08/22/16 10:33

|           | Batch    | Batch    |     | Dilution | Batch  | Prepared       |         |         |
|-----------|----------|----------|-----|----------|--------|----------------|---------|---------|
| Prep Type | Type     | Method   | Run | Factor   | Number | or Analyzed    | Analyst | Lab     |
| TCLP      | Leach    | 1311     |     |          | 138865 | 08/23/16 17:10 | JTA     | TAL CF  |
| TCLP      | Prep     | 3510C    |     |          | 138961 | 08/24/16 13:58 | DEM1    | TAL CF  |
| TCLP      | Analysis | 8082A    |     | 1        | 139660 | 08/30/16 18:43 | BKT     | TAL CF  |
| TCLP      | Leach    | 1311     |     |          | 138871 | 08/23/16 17:10 | JTA     | TAL CF  |
| TCLP      | Prep     | 3010A    |     |          | 138928 | 08/25/16 10:00 | JNR     | TAL CF  |
| TCLP      | Analysis | 6010C    |     | 2        | 139219 | 08/25/16 18:12 | OAD     | TAL CF  |
| TCLP      | Leach    | 1311     |     |          | 138871 | 08/23/16 17:10 | JTA     | TAL CF  |
| TCLP      | Prep     | 7470A    |     |          | 138951 | 08/24/16 13:32 | SAD     | TAL CF  |
| TCLP      | Analysis | 7470A    |     | (1)      | 139342 | 08/26/16 12:38 | SAD     | TAL CF  |
| Soluble   | Leach    | DI Leach |     |          | 138725 | 08/23/16 09:15 | JIS     | TAL CF  |
| Soluble   | Analysis | 9045D    |     | 1        | 138807 | 08/23/16 14:59 | JIS     | TAL CF  |
| Total/NA  | Analysis | D240-87  |     | 1        | 365538 | 08/25/16 14:05 | вмс     | TAL NSH |
| Total/NA  | Analysis | D92      |     | 1        | 139000 | 08/24/16 15:44 | BER     | TAL CF  |

Client Sample ID: 081716 PM

Date Collected: 08/17/16 00:00

Date Received: 08/22/16 10:33

Lab Sample ID: 310-87650-1

Matrix: Solid Percent Solids: 50.9

|           | Batch    | Batch  |     | Dilution | Batch  | Prepared       |         |         |
|-----------|----------|--------|-----|----------|--------|----------------|---------|---------|
| Ргер Туре | Туре     | Method | Run | Factor   | Number | or Analyzed    | Analyst | Lab     |
| Total/NA  | Prep     | 3550B  |     |          | 138625 | 08/22/16 12:27 | DEM2    | TAL CF  |
| Total/NA  | Analysis | 8082A  |     | 1        | 139607 | 08/30/16 13:57 | BKT     | TAL CF  |
| Total/NA  | Prep     | 9023   |     |          | 364732 | 08/24/16 06:00 | CLJ     | TAL NSH |
| Total/NA  | Analysis | 9023   |     | 1        | 364786 | 08/26/16 13:05 | CLJ     | TAL NSH |

## Laboratory References:

TAL CF = TestAmerica Cedar Falls, 704 Enterprise Drive, Cedar Falls, IA 50613, TEL (319)277-2401

TAL NSH = TestAmerica Nashville, 2960 Foster Creighton Drive, Nashville, TN 37204, TEL (615)726-0177

## **Definitions/Glossary**

Client: Clayton County Recycling

Project/Site: 081716 PM

TestAmerica Job ID: 310-87650-1

## Qualifiers

## **General Chemistry**

Qualifier Qualifier Description

HF Field parameter with a holding time of 15 minutes. Test performed by laboratory at client's request.

## Glossary

TEF

TEQ

Toxicity Equivalent Factor (Dioxin)

Toxicity Equivalent Quotient (Dioxin)

| Abbreviation   | These commonly used abbreviations may or may not be present in this report.                                 |
|----------------|---|
| д              | Listed under the "D" column to designate that the result is reported on a dry weight basis                  |
| %R             | Percent Recovery  |
| CFL            | Contains Free Liquid  |
| CNF            | Contains no Free Liquid   |
| DER            | Duplicate error ratio (normalized absolute difference)  |
| Dil Fac        | Dilution Factor   |
| DL, RA, RE, IN | Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample |
| DLC            | Decision level concentration  |
| MDA            | Minimum detectable activity   |
| EDL            | Estimated Detection Limit   |
| MDC            | Minimum detectable concentration  |
| MDL            | Method Detection Limit  |
| ML             | Minimum Level (Dioxin)  |
| NC             | Not Calculated  |
| ND             | Not detected at the reporting limit (or MDL or EDL if shown)  |
| PQL            | Practical Quantitation Limit  |
| QC             | Quality Control   |
| RER            | Relative error ratio  |
| RL             | Reporting Limit or Requested Limit (Radiochemistry)   |
| RPD            | Relative Percent Difference, a measure of the relative difference between two points                        |

## **Certification Summary**

Client: Clayton County Recycling Project/Site: 081716 PM

TestAmerica Job ID: 310-87650-1

## Laboratory: TestAmerica Cedar Falls -

Unless otherwise noted, all analytes for this laboratory were covered under each certification below.

| Program                                     | EPA Region   | Certification ID   | Expiration Date  |
|---|--|--|--|
| State Program                               | 7  | 007  | 12-01-17   |
| in this report, but certification is not of | fered by the governing a   | authority:   |  |
| Method Matrix                               | Analyt   | е  |  |
| Solid                                       | PCB-1  | 268  |  |
| 3 Solid                                     | PCB-1  | 268  |  |
| Solid                                       | Flash  | point  |  |
| 00  | State Program  I in this report, but certification is not of Method Matrix CC Solid BB Solid | State Program 7  I in this report, but certification is not offered by the governing at Method Matrix Analyt OC Solid PCB-1  B Solid PCB-1 | State Program 7 007  I in this report, but certification is not offered by the governing authority:  Method Matrix Analyte  C Solid PCB-1268  B Solid PCB-1268 |

## Laboratory: TestAmerica Nashville

Unless otherwise noted, all analytes for this laboratory were covered under each certification below.

| Authority              | Program                         |                             | EPA Region            | Certification ID         | Expiration Date |
|------------------------|---------------------------------|-----------------------------|-----------------------|--------------------------|-----------------|
| lowa                   | State Prog                      | gram                        | 7                     | 131                      | 04-01-18        |
| The following analytes | are included in this report, bu | it certification is not off | ered by the governing | authority:               |                 |
| Analysis Method        | Prep Method                     | Matrix                      | Analy                 | te                       |                 |
| 9023                   | 9023                            | Solid                       | Halog                 | ens, Extractable Organic |                 |
| D240-87                |                                 | Solid                       | BTU                   |                          |                 |

## **Method Summary**

Client: Clayton County Recycling

Project/Site: 081716 PM

TestAmerica Job ID: 310-87650-1

| Method  | Method Description                                     | Protocol | Laboratory |
|---------|--|----------|------------|
| 8082A   | Polychlorinated Biphenyls (PCBs) by Gas Chromatography | SW846    | TAL CF     |
| 6010C   | Metals (ICP)   | SW846    | TAL CF     |
| 7470A   | Mercury (CVAA)   | SW846    | TAL CF     |
| 9023    | Organic Halides, Extractable (EOX)                     | SW846    | TAL NSH    |
| 9045D   | pH   | SW846    | TAL CF     |
| D240-87 | Heat of Combustion                                     | ASTM     | TAL NSH    |
| D92     | Flashpoint   | ASTM     | TAL CF     |

## Protocol References:

ASTM = ASTM International

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

## Laboratory References:

TAL CF = TestAmerica Cedar Falls, 704 Enterprise Drive, Cedar Falls, IA 50613, TEL (319)277-2401

TAL NSH = TestAmerica Nashville, 2960 Foster Creighton Drive, Nashville, TN 37204, TEL (615)726-0177

TestAmerica Cedar Falls





## Cooler/Sample Receipt and Temperature Log Form

| Client Information  |   |
|---|---|
| client: Clayton County Recy   | ding  |
| City/State: MSONG TA  | Project:  |
| Receipt Information   | PERSONAL PROPERTY OF STREET   |
| Date/Time Received: 8 22.16 8:5   | SO Received By: AW  |
| Delivery Type: UPS FedEx  | FedEx Ground US Mail Spee-Dea   |
| TA Courier TA Field Sen   |   |
| Condition of Cooler/Containers  | 《花花·红色管理》(15.41)英"自己45"。在15.41在36600平均16.41。                          |
| Sample(s) received in Cooler?   | No If yes: Cooler ID:   |
| Multiple Coolers?   | No If yes: Cooler# of   |
| Cooler Custody Seals Present? 🔲 Yes 💢   | No If yes: Cooler custody seals intact? Yes No                        |
| Sample Custody Seals Present? 🔲 Yes 🔀   | No If yes: Sample custody seals intact? Yes No                        |
| Trip Blank Present? Yes   | No If yes: Which VOA samples are in cooler? ↓                         |
| Temperature Blank? Yes X No   | Dry ice Other:NONE  ID & Bottle Type:                                 |
| Note: If yes, use temp blank for measurement.   | If no, specify sample ID(s) and bottle type used to take measurement. |
| Thermometer ID:   | Correction Factor (°C): (O, O   |
| Uncorrected Temp (°C): 20. Le   | Corrected Temp (°C): 20. (a   |
| Exceptions Noted  | 是一个一个一个一个一个一个一个一个一个一个一个一个一个一个一个一个一个一个一个                               |
| <ul> <li>1) If temperature exceeds criteria, was sample(</li> <li>a) If yes: Is there evidence that the chilling</li> </ul> |   |
| <ol> <li>If temperature is &lt;0°C, are there obvious sig<br/>(e.g., bulging septa, broken/cracked bottles)</li> </ol>      | rns that the integrity of sample containers is compromised? ?)        |
| Note: If yes, contact PM before proceeding. If no, pro  | scaed with login  |
| Additional Comments   |   |
|   |   |
|   |   |
|   |   |
|   |   |

Document: CF-LG-WI-002

Revision: 21 Date: 7/28/2015

TestAmerica-Cedar Falls

General temperature criteria is 0 to 6°C Bacteria temperature criteria is 0 to 10°C

## TestAmerica Cedar Falls

704 Enterprise Drive Cedar Falls, A 50613 Phone (319) 277-2401 Fax (319) 277-2425

# Chain of Custody Record

| į |  |
|---|--|
|   |  |
|   |  |
| 1 |  |
| ) |  |
|   |  |
|   |  |
|   |  |
|   |  |

| Filbite (319) 211-2401 Fax (319) 211-2423              |                                 |              |                            |                                 |                                       |              |   |                    |          |                       |                    |            |          |           |   |                                 |
|--|---------------------------------|--------------|----------------------------|---------------------------------|---------------------------------------|--------------|---|--------------------|----------|-----------------------|--------------------|------------|----------|-----------|---|---------------------------------|
| Client Information (Sub Contract Lab)                  | Sampler                         |              |                            | Brown, Shall                    | Shali                                 |              |   |                    |          | Camer Tracking No(s): | Guixori            | vo(s):     |          | 43.6      | 310-7338.1  |                                 |
| Clent Contact Shipping/Receiving                       | Phone:                          |              |                            | E-Mail:                         | rown@                                 | estame       | E-Mail:<br>shall.brown@lestamericainc.com   | moom               |          |                       |                    |            |          | - T       | Page<br>Page 1 of 1   |                                 |
| Company:<br>TestAmerica Laboratories, Inc              |                                 |              | Y.                         |                                 |                                       |              | , l   | Analysis Requested | is Rec   | ueste                 | ۵                  |            |          | 45.5      | Job#:<br>310-87650-1  |                                 |
| Address:<br>2960 Foster Creighton Drive,               | Due Date Requested:<br>9/1/2016 | Ä            |                            |                                 |                                       |              |   |                    |          |                       |                    | _          |          |           | Preservation Codes:   | les:                            |
| α <sub>й</sub> ;<br>Nashville                          | TAT Requested (days):           | ys):         |                            |                                 | a dist                                |              |   |                    |          |                       |                    |            |          |           | B - NaOH<br>C - Zn Acetate  | N - None<br>O - AsNaO2          |
| State, Ztp:<br>TN, 37204                               |                                 |              |                            |                                 | , P.,                                 |              |   |                    |          |                       |                    |            |          |           | D - Nitric Acid<br>E - NaHSO4   | P - Na2O4S<br>Q - Na2SO3        |
| Phone:<br>615-726-0177(Tel) 615-726-3404(Fax)          | PO.#.                           |              |                            |                                 |                                       |              |   |                    |          |                       |                    |            | _        |           | G - Amchlor<br>H - Ascorbic Acid  | S - H2SO4 T - TSP Dodecahydrate |
|  | WO#                             |              |                            | 1                               | No)                                   | BUOU         |   |                    |          |                       |                    |            |          | _         | I - Ice<br>J - DI Water   | U - Acetone<br>V - MCAA         |
| Project Name:<br>081716 PM                             | Project #:<br>31001320          |              |                            | - 194                           | os or                                 | JOHNE        |   |                    |          |                       |                    |            |          | _         | L-EDA   | Z - other (specify)             |
| Site:  | SSOW#:                          |              |                            | Pausa                           | SD (Y                                 |              |   |                    |          |                       |                    |            | _        | _         | Other:  |                                 |
|  |                                 | Sample       | Sample<br>Type<br>(C=comp. | Matrix<br>(w-water,<br>S-solid, | Id Filtered<br>form MS/N<br>0_87_NP/H | 3/9023_Prep  |   |                    |          |                       |                    |            | _        | al Number |   |                                 |
| Sample Identification - Chefit to (Lab to)             | Salinbie Date                   |              | Preservation Code:         | - 12                            | ×ρ                                    | _            |   | 1                  | +        |                       |                    |            | χ.       | X         | opecial in  | Special Instructions/Note:      |
| 081716 PM (310-87650-1)                                | 8/17/16                         | Central      |                            | Solid                           | Ų                                     | ×            |   |                    |          |                       |                    |            |          | -         |   |                                 |
|  |                                 |              |                            |                                 |                                       |              |   |                    |          |                       |                    |            |          |           |   |                                 |
|  |                                 |              |                            |                                 |                                       |              |   |                    | 111      |                       |                    |            |          |           |   |                                 |
|  |                                 |              |                            |                                 |                                       |              |   |                    |          |                       |                    |            |          |           |   |                                 |
| Possible Hazard Identification<br>Unconfirmed          |                                 |              |                            |                                 | Samp                                  | le Disp      | osal ( /                                    | A fee m            | ay be a  | Ssesse                | difsa              | mples      | □ are re | taine     | Sample Disposal ( A fee may be assessed if samples are retained longer than 1 month)  Return To Client  Disposal By Lab  Archive For  Mon | 1 month)                        |
| Deliverable Requested: I, II, III, IV, Other (specify) | Primary Deliverable Rank:       | able Rank: 1 |                            |                                 | Speci                                 | al Instr     | Special Instructions/QC Requirements:       | C Req              | uireme   | ıts:                  | ŀ                  | 1          |          |           |   |                                 |
| Empty Kit Relinquished by:                             |                                 | Date:        |                            | _                               | Time:                                 |              |   | 1                  | 1        | 3                     | Method of Shipment | Shipmen    |          | 1         |   |                                 |
| Relinquished by:  Relinquished by:                     | Date/Time:<br>BLL) &            | 3            | 00                         | Company                         | الإساق                                |              |   | 0                  | A        | ۱' ل <u>ا</u>         |                    | Date/Time: | 737      | 2         | 0850  | Company TAN                     |
| Relinquished by:                                       | Date/Time:                      |              | Car                        | Company                         | 70 7                                  | Received by: | 5 9   |                    | ė.       | \                     |                    | Date/Time: | ne.      |           |   | Company                         |
| Custody Seals Intact: Custody Seal No.:  Δ Yes Δ No    |                                 |              |                            |                                 | Ω                                     | ooler Ter    | Cooler Temperature(s) °C and Other Remarks: | s) °C and          | Other Re |                       | 20.0               |            |          |           |   |                                 |



## **COOLER RECEIPT FORM**

| Cooler Received/Opened On 8/23/2016 @ 0850  |                |
|---|----------------|
| Time Samples Removed From Cooler Time Samples Placed In Storage   | (2 Hour Window |
| 1. Tracking # 25 X 6 (last 4 digits, FedEx) Courier: _FedEx_  | <del></del>    |
| IR Gun ID 17610176 pH Strip Lot HC564992 Chlorine Strip Lot 012516A                                     |                |
| 2. Temperature of rep. sample or temp blank when opened:  |                |
| 3. If Item #2 temperature Is 0°C or less, was the representative sample or temp blank frozen?           | YES NO. NA     |
| 4. Were custody seals on outside of cooler?   | YES. NONA      |
| If yes, how many and where:   | 0              |
| 5. Were the seals intact, signed, and dated correctly?  | YESNO. (NA)    |
| 6. Were custody papers inside cooler?   | YES NO NA      |
| I certify that I opened the cooler and answered questions 1-6 (intial)                                  | PM             |
| 7. Were custody seals on containers:  YES  NO  and Intact   | YESNO .NA      |
| Were these signed and dated correctly?  | YESNO.(NA)     |
| 8. Packing mat'l used? Bubblewrab Plastic bag Peanuts Vermiculite Foam Insert Papel                     | r Other None   |
| 9. Cooling process: Ice lce-pack Ice (direct contact) Dry ice   | Other None     |
| 10. Did all containers arrive in good condition (unbroken)?   | YES)NONA       |
| 11. Were all container labels complete (#, date, signed, pres., etc)?                                   | YESNONA        |
| 12. Dld all container labels and tags agree with custody papers?  | YES NO NA      |
| 13a. Were VOA vials received?   | YES. NO. NA    |
| b. Was there any observable headspace present in any VOA vial?  | YESNO(NA)      |
| 14. Was there a Trip Blank in this cooler? YESNO. NA If multiple coolers, sequence                      | ce #           |
| I certify that I unloaded the cooler and answered guestions 7-14 (initial)                              |                |
| 15a. On pres'd bottles, did pH test strips suggest preservation reached the correct pH level?           | YESNO.NA       |
| b. Did the bottle labels indicate that the correct preservatives were used                              | YESNO. NA      |
| 16. Was residual chlorine present?  | YESNO. (NA)    |
| I certify that I checked for chlorine and pH as per SOP and answered questions 15-16 (initial)          | _DA            |
| 17. Were custody papers properly filled out (ink, signed, etc)?   | VESNONA        |
| 18. Did you sign the custody papers in the appropriate place?   | YES NO NA      |
| 19. Were correct containers used for the analysis requested?  | YESNONA        |
| 20. Was sufficient amount of sample sent in each container?   | YES NO NA      |
| I certify that I entered this project into LIMS and answered questions 17-20 (intial)                   |                |
| I certify that I attached a label with the unique LIMS number to each container (intial) $\mathcal{D}P$ |                |
| 21. Were there Non-Conformance issues at login? YES NO Was a NCM generated? YES                         | NO.#           |

## Login Sample Receipt Checklist

Client: Clayton County Recycling

Job Number: 310-87650-1

Login Number: 87650

MS/MSDs

<6mm (1/4").

Multiphasic samples are not present.

Residual Chlorine Checked.

Samples do not require splitting or compositing.

List Number: 1

Creator: Patrick, Kathryn A

There is sufficient vol. for all requested analyses, incl. any requested

Containers requiring zero headspace have no headspace or bubble is

List Source: TestAmerica Cedar Falls

| Question  | Answer | Comment   |
|---|--------|---|
| RadioactivIty wasn't checked or is = background as measured by a survey meter.</td <td>N/A</td> <td></td> | N/A    |   |
| The cooler's custody seal, if present, is intact.   | N/A    |   |
| Sample custody seals, if present, are intact.   | N/A    |   |
| The cooler or samples do not appear to have been compromised or tampered with.                            | True   |   |
| Samples were received on ice.   | False  | No ice received.  |
| Cooler Temperature is acceptable.   | False  | Cooler temperature outside required temperature criteria. |
| Cooler Temperature is recorded.   | True   |   |
| COC is present.   | True   |   |
| COC is filled out in ink and legible.   | True   |   |
| COC is filled out with all pertinent information.   | True   |   |
| s the Field Sampler's name present on COC?  | True   |   |
| There are no discrepancles between the containers received and the COC.                                   | True   |   |
| Samples are received within Holding Time (excluding tests with immediate HTs)                             | True   |   |
| Sample containers have legible labels.  | True   |   |
| Containers are not broken or leaking.   | True   |   |
| Sample collection date/times are provided.  | True   |   |
| Appropriate sample containers are used.   | True   |   |
| Sample bottles are completely filled.   | True   |   |
| Sample Preservation Verified,   | True   |   |

True

True

True

True

N/A











## **Login Sample Receipt Checklist**

Client: Clayton County Recycling

Job Number: 310-87650-1

Login Number: 87650 List Number: 2 List Source: TestAmerica Nashville List Creation: 08/23/16 03:48 PM

Creator: Armstrong, Daniel

| Question   | Answer | Comment |
|--|--------|---------|
| Radioactivity wasn't checked or is = background as measured by a survey meter.</td <td>True</td> <td></td> | True   |         |
| The cooler's custody seal, if present, is intact.  | N/A    |         |
| Sample custody seals, if present, are intact.  | N/A    |         |
| The cooler or samples do not appear to have been compromised or tampered with.                             | True   |         |
| Samples were received on ice.  | True   |         |
| Cooler Temperature is acceptable.  | True   |         |
| Cooler Temperature is recorded.  | True   | 2,0C    |
| COC is present.  | True   |         |
| COC is filled out in ink and legible.  | True   |         |
| COC is filled out with all pertinent information.  | True   |         |
| Is the Field Sampler's name present on COC?  | True   |         |
| There are no discrepancies between the containers received and the COC.                                    | True   |         |
| Samples are received within Holding Time (excluding tests with immediate HTs)                              | True   |         |
| Sample containers have legible labels.   | True   |         |
| Containers are not broken or leaking.  | True   |         |
| Sample collection date/times are provided.   | True   |         |
| Appropriate sample containers are used.  | True   |         |
| Sample bottles are completely filled.  | True   |         |
| Sample Preservation Verified.  | N/A    |         |
| There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs                           | True   |         |
| Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").                            | N/A    |         |
| Multiphasic samples are not present.   | True   |         |
| Samples do not require splitting or compositing.   | True   |         |
| Residual Chlorine Checked.   | N/A    |         |



December 12, 2016

Clayton County Recycling 11645 Echo Avenue Monona, IA 52129-0607

Attn:

Ms. Gina Roys, Controller

Re:

Special Waste Approval Letter

Dear Ms. Roys:

We are pleased to advise that the special waste listed below was recertified on 12/08/16 for disposal at the Glacier Ridge Landfill. The attached profile is your documentation that verifies this waste stream is not a hazardous or unauthorized waste and also verifies approval to accept this waste stream by the Glacier Ridge Landfill as indicated by the signature of our approvals department and our general manager. The waste approval is valid as follows:

Generator:

Clayton County Recycling

Address of Waste Generated:

11645 Echo Avenue, Monona, IA 52129

Waste Stream:

Fluff, Shredded Auto Residue

Waste Category:

26A

Profile Number:

GRL 07027 03/06/17

**Profile Recertification Date:** 

Direct

Waste Disposal Method:

Please note the special conditions for acceptance are as follows:

- 1. Each load must have a manifest signed by an authorized representative or agent of Clayton County Recycling accompanying the waste for disposal.
- Any change in process or waste stream voids this approval. New waste will need to be profiled, including new chemical analysis and or MSDS Sheets if applicable, and submitted for review and approval prior to acceptance.
- 3. All loads must be properly targed and hauled by a licensed transporter.

We greatly appreciate the confidence and trust you have placed in selecting Glacier Ridge Landfill to manage your disposal needs. As an additional note, we have fulfilled all Wisconsin DNR regulations and our landfill meets or exceeds the design, construction, and operating standards promulgated under 40 CFR 258.

If you have questions or need assistance with additional waste disposal, please do not hesitate to contact us at (920) 387-0987.

Sincerely,

ADVANCED DISPOSAL SERVICES GLACIER RIDGE LANDFILL, LLC

Jayne Fae Walter

Administrative Assistant

JFW/smr Attachment

N7296 Highway V

Horicon, WI 53032

Telephone: (920) 387-0987

Fax: (920) 387-0980

AdvancedDisposal.com

| Advanced Di       | Isposal Services  | Glacler Ridge Landfill |
|-------------------|-------------------|------------------------|
| Street Address:   | N7296 Hwy V       |                        |
| City State, Zip:  | Horlcon, WI 53032 |                        |
| Orty, Otatol Pale | 020 207 0007      |                        |



| Telephone:         | 920-387-0987                            |  |
|--------------------|---|--|
|                    | WAS                                     | STE PROFILE SHEET  |
|                    |   | Profile #: GRL 07027   |
| Designated Facil   | lity: Glacier Ridge Landfill - Wi       | Original Submittal: O Yes   No   |
|                    |   | Recertification:   Yes O No  |
|                    |   | One Time Project: O Yes   No   |
|                    |   | Sales Representative: Floyd Leo  |
|                    |   | B, Billing   |
| A. Generator       | Clayton County Recycling                | Name: Same As Generator  |
| Name:              | 11645 Echo Avenue                       | Site Address:  |
| Site Address:      | Monona, IA 52159                        | City, State, Zip:  |
| City, State, Zip:  | Gina Roys                               | Contact:   |
| Contact:           | (563) 639-4757                          | Phone:   |
| Phone:             | (563) 539-4735                          | Fax:   |
| Fax:               | (000) 500-4100                          |  |
| C. Waste Strea     | m Information                           |  |
| Waste Name:        |   | <u> </u>   |
| Process Genera     | ating Waste: Auto Shredder              |  |
|                    |   |  |
| Method of Ships    |   | ● Bulk   |
| Estimated Annu     |   |  |
| Frequency:         | O One Time   Daily                      | O Weekly O Monthly O Other   |
| Special Handlin    | ng:                                     |  |
|                    |   |  |
| D Sample/Ans       | alysis Information                      |  |
| is the represent   | tative sample collected to prepare this | profile and laboratory analysis collected in accordance O Yes O No     |
| with U.S. EPA      | 40 CFR 261.20 (c) guidelines or equival | ent rules?   |
|                    |   |  |
| Check all that a   | mitted with profile   III Laboratory Ar | nalysis submitted Safety Data Sheet submitted                          |
|                    |   | Date 11/16, 17,18/16 Sample 1.D. 310-94505-1, 310-94511-1, 310-94517-1 |
|                    |   |  |
| E. Waste Char      |   |  |
| Physical State:    | Solid                                   |  |
| Color:             | None                                    |  |
| Free Liquids:      | >215                                    |  |
| Flash Point:       | 8.2, 8.6                                |  |
| pH:                | 100%                                    |  |
| Total Solids:      | NIIA                                    |  |
| Reactive Cyan      |   |  |
| Reactive Sulfic    |   | Yes O No   |
| Laboratory and     |   | parameters provided for this profile is attached.                      |
| Landfill initials: | . UW_                                   | 1 of 5   |

|  |        | O 11-  |
|--|--------|--|
| his waste a hazardous waste as defined by Federal, State or local laws and regulations?  |        | ⊙ No   |
| es this waste contain regulated concentrations of Polychlorinated Biphenyls (PCBs) as defined in 40<br>R Part 761?   | O Yes  | No     |
| this waste a characteristically hazardous waste as defined in 40 CFR 261.20 - CFR 261.24?  | O Yes  | No    No |
| pes this waste or generating process contain regulated concentrations of the following pesticides and/or<br>printricides; Chiordane, Endrin, Heptachlor (and its epoxides), Lindane, Methoxychlor, Toxaphene, 2,4-D,<br>4,5-T Silvex as defined in 40 CFR 261.33?  | O Yes  |  |
| oes this waste contain regulated concentrations of listed hazardous wastes defined by 40 CFR 261.31,<br>61.32, 261.33, including RCRA F-Listed solvents?   | O Yes  | No     |
| oes this waste contain regulated concentrations of 2,3,7,8-Tetrachlorodibenzodioxin (2,3,7,8-TCCD) or any<br>ther dioxin as defined in 40 CFR261.31?   | O Yes  | ● No   |
| this a regulated Medical or Infectious Waste as defined by Federal and/or State regulations?   | O Yes  |  |
| s this a regulated Toxic Material as defined by Federal and/or State regulations?  | O Yes  | No     |
| s this a regulated Toxic Material de desirence strains a regulated Toxic Material Superfund Clean-up Site?   | O Yes  | No     |
| s this waste generate fugitive dust?   | O Yes  | No   |
| s this waste hot or capable of generating heat?  | () Yes | <b>⊙</b> No  |
| s this waste subject to UST Corrective Action Regulations under CFR 280?   | () Yes | s ⊚ No   |
| is this a regulated Radioactive Waste as defined by Federal and/or State regulations? Furthermore, this waste does not contain nor is derived from the processing, solidification or treatment of naturally occurring radioactive material (NORM) or technologically enhanced naturally occurring radioactive material (TENORM) as defined under any State, local or federal laws. | O Yes  | s ⊚ No   |
|  | O Ye   | s ON   |
|  | O Ye   | s ON   |
| Other Waste Data or Comments.  |        |  |

|  | ¥   |          |
|--|---|----------|
|  |   |          |
|  |   |          |
|  |   |          |
|  |   |          |
|  |   |          |
|  |   |          |
|  |   |          |
|  |   |          |
|  |   |          |
|  |   |          |
|  |   |          |
|  |   |          |
|  |   |          |
|  |   |          |
| O wildlesday   |   | t. 41    |
| , Generator Certification<br>o the best of my knowledge, all information submitted in  | his and all attached documents contain true and accurate desc<br>Lby federal. State or local laws and regulations, All relevant inf | ormation |
| ne waste. This waste is not a hazardous waste as define<br>egarding known or suspected hezards in the possession   |   |          |
| Gunality Known of suspected Hazards III the passage of the control | Controller  |          |
|  | Title   |          |
| Senerator Signature  | 12.7-16   |          |
| Gina Roys<br>Printed Name  | Date  |          |
| JEINTON IN AMIN  |   |          |

My approval is based upon the laboratory analysis of a representative sample and/or safety data sheets submitted by the generator. All State and/or third party reviews and approvals are obtained and maintained on file. Receipt of waste is in full compliance of internal policies pertaining to waste acceptance and all pertinent permits and host agreement(s).

| State and/or third party reviews and approvals obtained and attached to         | profile?                                    | O No   |
|---|---|--------|
| state and/or third party reviews and approvale state and required for the pro   | per handling and disposal of the O Yes      | No     |
| s employee training exclusive to uns waste stroum requirements and an arterial? |   |        |
| Specify what training exclusive to this waste stream is required and for        | which employees:                            | 1      |
|   |   |        |
| ls employee PPE exceeding the minimum requirements needed for th                | e proper handling and disposal of this O Ye | s 🌘 No |
| waste streem?   |   |        |
| Specify what additional PPE is required and to which employees the              | additional PPE is to be provided:           |        |
|   |   |        |
|   |   |        |
|   |   |        |
| andfill Approval  | 1 Manuar                                    |        |
| ON NOTO   | General Manager THO                         |        |
| and III Signature   |   |        |
| Lan P. Watter   | Date  |        |
| Printed Name  |   |        |
|   |   |        |
| Level Of Authority Approval   |   |        |
| Cignoture   | Title                                       |        |
| Approver Signature  |   |        |
| Printed Name  | Date  |        |
| NUMBER Manue  |   |        |
| Third Party Review  | .1  |        |
| IIIII O PAIN INVINENT   | HMar. 15                                    |        |
| Approver Signature  | 12-0-11                                     |        |
| Tim Balid   | 12-8-16                                     |        |
|   | Date  |        |
| Printed Name  |   |        |

Landfill Used for Disposal: Glacier Ridge Landfill

Generator Name: Clayton County Recycling

Waste Name: Auto Shredder Fluff

Profile Number: GRL 07027



## **Certification Checklist**

| Has completed profile been submitted including the following: | :                        | Yes | No  | N/A           |
|---|--------------------------|-----|-----|---------------|
|   |                          | 0,  | 0   | 0             |
| Generator Name and Address                                    |                          | 7   | . 0 | 0             |
| Acceptable Waste Name and Process Generating the Waste        |                          |     |     | $\overline{}$ |
| Waste is Non-Hazardous  |                          |     |     |               |
| Acceptable Composition and Physical Characteristics           |                          | Ø.  | 0   |               |
|   |                          | þ   | 0   | 0             |
| Complete Sample Information and/or SDSs                       |                          | 0   | 0   | 0             |
| Properly Signed by the Generator                              |                          | ی   |     | <del>-</del>  |
| State Approval Required and Granted                           |                          | 0   |     | ٥             |
| Waste Category: 76 A  | Disposal Method:         | 13  |     |               |
| Recertification Date:  Frequency of Testing:                  | Parameters to be Tested: |     |     |               |
| Conditions of Approval:                                       |                          |     |     |               |
|   |                          |     |     |               |
|   |                          |     |     |               |





THE LEADER IN ENVIRONMENTAL TESTING

## **ANALYTICAL REPORT**

TestAmerica Laboratories, Inc. TestAmerica Cedar Falls 704 Enterprise Drive Cedar Falls, IA 50613 Tel: (319)277-2401

TestAmerica Job ID: 310-94505-1 Client Project/Site: 111616 PM

For: Clayton County Recycling 11645 Echo Avenue PO BOX 861 Monona, Iowa 52159

Attn: Gina Roys

Authorized for release by: 12/6/2016 4:09:36 PM

Shali Brown, Project Manager II (615)301-5031 shali.brown@testamericainc.com

LINKS

Review your project results through

Total Access

Have a Question?



Visit us at:

www.testamericainc.com

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

## **Table of Contents**

| Cover Page            | 1  |
|-----------------------|----|
| Table of Contents     | 2  |
| Case Narrative        | 3  |
| Sample Summary        | 4  |
| Client Sample Results | 5  |
| Chronicle             | 7  |
| Definitions           | 8  |
| Certification Summary | 9  |
| Method Summary        | 10 |
| Chain of Custody      | 11 |
| Receint Chacklists    | 15 |

## **Case Narrative**

Client: Clayton County Recycling

Project/Site: 111616 PM

TestAmerica Job ID: 310-94505-1

Job ID: 310-94505-1

Laboratory: TestAmerica Cedar Falls

Narrative

Job Narrative 310-94505-1

## Comments

No additional comments.

## Receipt

The sample was received on 11/22/2016 9:20 AM; the sample arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 10.4° C.

## Receipt Exceptions

Sample was received at the laboratory outside the required temperature criteria and without a sample ID, collection date or collection time listed on the chain of custody.

## GC Semi VOA

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

## Metals

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

## **General Chemistry**

Method(s) D92: The following samples were collected in an improper container. The client was contacted regarding this issue, and the laboratory was instructed to proceed with analysis.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

## **Organic Prep**

Method(s) 3550B: The following sample was diluted due to the nature of the sample matrix: 111616 PM (310-94505-1). Elevated reporting limits (RLs) are provided.

Method(s) 1311: EPA Method 1311 requires the room temperature to be maintained at 23 +/- 2 degrees Celsius for the duration of the leaching process. For batch 310-149852, the temperature 20.3-22.8 was outside of this range.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

## **Sample Summary**

Client: Clayton County Recycling Project/Site: 111616 PM

TestAmerica Job ID: 310-94505-1

| Lab Sample ID | Client Sample ID | Matrix | Collected Receive         | ed    |
|---------------|------------------|--------|---------------------------|-------|
| 310-94505-1   | 111616 PM        | Solid  | 11/16/16 00:00 11/22/16 0 | 09:20 |







## **Client Sample Results**

Client: Clayton County Recycling

Project/Site: 111616 PM

TestAmerica Job ID: 310-94505-1

Client Sample ID: 111616 PM

Date Collected: 11/16/16 00:00 Date Received: 11/22/16 09:20 Lab Sample ID: 310-94505-1

Matrix: Solid

| Analyte                                | Result    | Qualifier | RL       | MDL | Unit      | D | Prepared       | Analyzed       | DII Fac |
|--|-----------|-----------|----------|-----|-----------|---|----------------|----------------|---------|
| PCB-1016                               | <3.20     |           | 3,20     |     | ug/L      | - | 11/29/16 12:30 | 11/30/16 17:46 | -       |
| PCB-1221                               | <3.20     |           | 3.20     |     | ug/L      |   | 11/29/16 12:30 | 11/30/16 17:46 | 64      |
| PCB-1232                               | <3.20     |           | 3.20     |     | ug/L      |   | 11/29/16 12:30 | 11/30/16 17:46 | . 1     |
| PCB-1242                               | <3.20     |           | 3.20     |     | ug/L      |   | 11/29/16 12:30 | 11/30/16 17:46 | - 9     |
| PCB-1248                               | <3.20     |           | 3,20     |     | ug/L      |   | 11/29/16 12:30 | 11/30/16 17:46 | 84      |
| PCB-1254                               | <3.20     |           | 3.20     |     | ug/L      |   | 11/29/16 12:30 | 11/30/16 17:46 | 14      |
| PCB-1260                               | <3.20     |           | 3.20     |     | ug/L      |   | 11/29/16 12:30 | 11/30/16 17:46 | 134     |
| PCB-1268                               | <3.20     |           | 3.20     |     | ug/L      |   | 11/29/16 12:30 | 11/30/16 17:46 | - 1     |
| Polychlorinated biphenyls, Total       | <3.20     |           | 3.20     |     | ug/L      |   | 11/29/16 12:30 | 11/30/16 17:46 | 19      |
| Surrogate                              | %Recovery | Qualifier | Limits   |     |           |   | Prepared       | Analyzed       | Dil Fac |
| DCB Decachlorobiphenyl (Surr)          | 34        |           | 10 - 119 |     |           |   | 11/29/16 12:30 | 11/30/16 17:46 | 1       |
| Tetrachloro-m-xylene                   | 32        |           | 14 - 110 |     |           |   | 11/29/16 12:30 | 11/30/16 17:46 | 1       |
| Method: 6010C - Metals (ICP) - Analyte | Result    | Qualifier | RL       | MDL |           | D | Prepared       | Analyzed       | Dil Fac |
| Arsenic                                | <0.300    |           | 0,300    |     | mg/L      | - | 11/29/16 07:38 | 11/29/16 19:58 | - 1     |
| Barium                                 | 0.615     |           | 0.500    |     | mg/L      |   | 11/29/16 07:38 | 11/29/16 19:58 | e d     |
| Cadmium                                | 0.0918    |           | 0.0200   |     | mg/L      |   | 11/29/16 07:38 | 11/29/16 19:58 |         |
| Chromium                               | <0.0200   |           | 0.0200   |     | mg/L      |   | 11/29/16 07:38 | 11/29/16 19:58 | 1       |
| Lead                                   | <0.100    |           | 0.100    |     | mg/L      |   | 11/29/16 07:38 | 11/29/16 19:58 | 3       |
| Selenium                               | <0.150    |           | 0,150    |     | mg/L      |   | 11/29/16 07:38 | 11/29/16 19:58 | 9       |
| Silver                                 | <0.0200   |           | 0.0200   |     | mg/L      |   | 11/29/16 07:38 | 11/29/16 19:58 | 1       |
| Method: 7470A - Mercury (CVA)          | A) - TCLP |           |          |     |           |   |                |                |         |
| Analyte                                | Result    | Qualifier | RL       | MDL | Unit      | D | Prepared       | Analyzed       | DII Fac |
| Mercury                                | <0.00200  |           | 0.00200  |     | mg/L      | _ | 11/29/16 09:09 | 11/30/16 11:21 | -       |
| General Chemistry                      |           |           |          |     |           |   |                |                |         |
| Analyte                                | Result    | Qualifier | RL       | RL  | Unit      | D | Prepared       | Analyzed       | Dil Fac |
| вти                                    | 3180      |           | 200      |     | BTU/lb    |   |                | 12/04/16 19:53 | - 4     |
| Flashpoint                             | >215      |           | 40.0     |     | Degrees F |   |                | 11/25/16 19:59 | 9       |
| General Chemistry - Soluble            |           |           |          |     |           |   |                |                |         |
| •                                      |           | O 1141    | DI.      | D.  | 11-14     | D | D              | Annhand        | DILE-   |
| Analyte                                | Result    | Qualifier | RL       | KL  | Unit      |   | Prepared       | Analyzed       | Dil Fac |

Client Sample ID: 111616 PM

Date Collected: 11/16/16 00:00

Date Received: 11/22/16 09:20

Lab Sample ID: 310-94505-1

Matrix: Solid

Percent Solids: 65.7

| Analyte  | Result  | Qualifler | RL    | MDL | Unit  | D         | Prepared       | Analyzed       | DII Fac |
|----------|---------|-----------|-------|-----|-------|-----------|----------------|----------------|---------|
| PCB-1016 | <0.373  |           | 0.373 |     | mg/Kg | 艾         | 11/22/16 16:29 | 11/30/16 12:16 | 1       |
| PCB-1221 | <0.373  |           | 0.373 |     | mg/Kg | ☆         | 11/22/16 16:29 | 11/30/16 12:16 | - 1     |
| PCB-1232 | <0.373  |           | 0.373 |     | mg/Kg | Ü         | 11/22/16 16:29 | 11/30/16 12:16 | 1       |
| PCB-1242 | 2.90    |           | 0.746 |     | mg/Kg | 計         | 11/22/16 16:29 | 12/01/16 11:50 | 2       |
| PCB-1248 | <0.373  |           | 0.373 |     | mg/Kg | ₽         | 11/22/16 16:29 | 11/30/16 12:16 | 1       |
| PCB-1254 | <0.373  |           | 0.373 |     | mg/Kg | ₩         | 11/22/16 16:29 | 11/30/16 12:16 | 1       |
| PCB-1260 | <0.373  |           | 0.373 |     | mg/Kg | <b>\$</b> | 11/22/16 16:29 | 11/30/16 12:16 | 1       |
| PCB-1268 | < 0.373 |           | 0.373 |     | mg/Kg | 325       | 11/22/16 16:29 | 11/30/16 12:16 | 1       |

TestAmerica Cedar Falls

## **Client Sample Results**

Client: Clayton County Recycling Project/Site: 111616 PM

TestAmerica Job ID: 310-94505-1

|   | Surrogate                     | %Recovery Qualifier | Limits   | Prepared       | Analyzed       | DII Fac |
|---|-------------------------------|---------------------|----------|----------------|----------------|---------|
| ı | DCB Decachlorobiphenyl (Surr) | 62                  | 10 - 143 | 11/22/16 16:29 | 11/30/16 12:16 | 1       |
|   | Tetrachloro-m-xylene          | 56                  | 10 - 110 | 11/22/16 16:29 | 11/30/16 12:16 | 1       |

| General Chemistry             |        |           |      |     |       |   |                |                |         |
|-------------------------------|--------|-----------|------|-----|-------|---|----------------|----------------|---------|
| Analyte                       | Result | Qualifier | RL   | MDL | Unit  | D | Prepared       | Analyzed       | DII Fac |
| Halogens, Extractable Organic | 2020   |           | 71.2 |     | mg/Kg | ₩ | 11/28/16 15:15 | 11/29/16 07:00 | 1       |

## Lab Chronicle

Client: Clayton County Recycling

Project/Site: 111616 PM

TestAmerica Job ID: 310-94505-1

Client Sample ID: 111616 PM

Date Collected: 11/16/16 00:00 Date Received: 11/22/16 09:20 Lab Sample ID: 310-94505-1

Matrix: Solid

|           | Batch    | Batch    |     | Dilution | Batch  | Prepared       |         |         |
|-----------|----------|----------|-----|----------|--------|----------------|---------|---------|
| Prep Type | Type     | Method   | Run | Factor   | Number | or Analyzed    | Analyst | Lab     |
| TCLP      | Leach    | 1311     |     |          | 149852 | 11/28/16 14:30 | JTA     | TAL CF  |
| TCLP      | Prep     | 3510C    |     |          | 149929 | 11/29/16 12:30 | DEM1    | TAL CF  |
| TCLP      | Analysis | 8082A    |     | 1        | 150105 | 11/30/16 17:46 | вкт     | TAL CF  |
| TCLP      | Leach    | 1311     |     |          | 149853 | 11/28/16 14:30 | JTA     | TAL CF  |
| TCLP      | Prep     | 3010A    |     |          | 149860 | 11/29/16 07:38 | JNR     | TAL CF  |
| TCLP      | Analysis | 6010C    |     | 1        | 150006 | 11/29/16 19:58 | OAD     | TAL CF  |
| TCLP      | Leach    | 1311     |     |          | 149853 | 11/28/16 14:30 | JTA     | TAL CF  |
| TCLP      | Prep     | 7470A    |     |          | 149889 | 11/29/16 09:09 | SAD     | TAL CF  |
| TCLP      | Analysis | 7470A    |     | 1        | 150125 | 11/30/16 11:21 | SAD     | TAL CF  |
| Soluble   | Leach    | DI Leach |     |          | 149495 | 11/23/16 08:30 | SAS     | TAL CF  |
| Soluble   | Analysis | 9045D    |     | 1        | 149543 | 11/23/16 10:42 | SAS     | TAL CF  |
| Total/NA  | Analysis | D240-87  |     | 1        | 391636 | 12/04/16 19:53 | SD      | TAL NSH |
| Total/NA  | Analysis | D92      |     | 1        | 149683 | 11/25/16 19:59 | BER     | TAL CF  |

Client Sample ID: 111616 PM

Date Collected: 11/16/16 00:00 Date Received: 11/22/16 09:20 Lab Sample ID: 310-94505-1

Matrix: Solid Percent Solids: 65.7

|           | Batch    | Batch  |     | Dilution | Batch  | Prepared       |         |         |
|-----------|----------|--------|-----|----------|--------|----------------|---------|---------|
| Prep Type | Туре     | Method | Run | Factor   | Number | or Analyzed    | Analyst | Lab     |
| Total/NA  | Prep     | 3550B  |     |          | 149440 | 11/22/16 16:29 | AJM     | TAL CF  |
| Total/NA  | Analysis | 8082A  |     | 1        | 150043 | 11/30/16 12:16 | BKT     | TAL CF  |
| Total/NA  | Prep     | 3550B  |     |          | 149440 | 11/22/16 16:29 | AJM     | TAL CF  |
| Total/NA  | Analysis | 8082A  |     | 2        | 150196 | 12/01/16 11:50 | BKT     | TAL CF  |
| Total/NA  | Prep     | 9023   |     |          | 390413 | 11/28/16 15:15 | NKK     | TAL NSH |
| Total/NA  | Analysis | 9023   |     | 1        | 390590 | 11/29/16 07:00 | NKK     | TAL NSH |

## Laboratory References:

TAL CF = TestAmerica Cedar Falls, 704 Enterprise Drive, Cedar Falls, IA 50613, TEL (319)277-2401

TAL NSH = TestAmerica Nashville, 2960 Foster Creighton Drive, Nashville, TN 37204, TEL (615)726-0177

## **Definitions/Glossary**

Client: Clayton County Recycling

Project/Site: 111616 PM

TestAmerica Job ID: 310-94505-1

## Qualifiers

## **General Chemistry**

| Qualifier | Qualifler Description  |
|-----------|------------------------|
| HF        | Field parameter with a |

Field parameter with a holding time of 15 minutes. Test performed by laboratory at client's request.

## Glossary

QC

RER

RL

RPD

TEF

TEQ

Quality Control

Relative error ratio

Toxicity Equivalent Factor (Dioxin)

Toxicity Equivalent Quotient (Dioxin)

Reporting Limit or Requested Limit (Radiochemistry)

Relative Percent Difference, a measure of the relative difference between two points

| Abbreviation   | These commonly used abbreviations may or may not be present in this report.                                 |
|----------------|---|
| п              | Listed under the "D" column to designate that the result is reported on a dry weight basis                  |
| %R             | Percent Recovery  |
| CFL            | Contains Free Liquid  |
| CNF            | Contains no Free Liquid   |
| DER            | Duplicate error ratio (normalized absolute difference)  |
| Dil Fac        | Dilution Factor   |
| DL, RA, RE, IN | Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample |
| DLC            | Decision level concentration  |
| MDA            | Minimum detectable activity   |
| EDL            | Estimated Detection Limit   |
| MDC            | Minimum detectable concentration  |
| MDL            | Method Detection Limit  |
| ML             | Minimum Level (Dioxin)  |
| NC             | Not Calculated  |
| ND             | Not detected at the reporting limit (or MDL or EDL if shown)  |
| PQL            | Practical Quantitation Limit  |
|                |   |